CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, November 25, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(* *denotes that this work is advertised in Engineering News.*)

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

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RAILWAYS.

(* *denotes that this work is advertised in Engineering News.*)

ATCHISON, TOPEKA & SANTA FE.—Company will build a spur to connect its line with the San Dimas, Cal., rock quarry. The cost is estimated at over $9,000, and Los Angeles County will pay for same. The Supervisors have authorized a contract with the railroad company for that purpose. The length of the spur will be 8,000 ft.

ATLANTIC COAST LINE.—The annual meeting of the stockholders of the Atlantic Coast Line Railway was held on Nov. 16 in Richmond, Va., at which time provision was made for double-tracking 1,500 miles of the main line of the road from Richmond south. The improvement, which is designed to make the Coast Line the great trunk road of the Atlantic seaboard, is to be provided for through an issue of $200,000,000 in gold bonds, which will not only pay for the double-tracking, but for the erection of shops and new terminals, as well as to care for present outstanding indebtedness of the company, according to press statements. E. B. Pleasants is Ch. Engr., Wilmington, N. C.

BELLE FOURCHE VALLEY.—See Chicago & Northwestern.

CHICAGO, BURLINGTON & QUINCY.—We are officially advised that MacARTHUR BROS. CO., 277 Dearborn St., Chicago, has been awarded contract for the extension of the Chicago, Burlington & Quincy R. R., from Shoshoni to Powder River, Wyo., about 63 miles. There are about 3,500,000 cu. yds. of material, bridging, etc. This work is mostly team work, suitable for fresnos and graders, although there is some rock work. This work will be let by F. C. Hitchcock, Vice-Pres. and Gen. Mgr., at Shoshoni, Wyo., at once.

CHICAGO, MEMPHIS & GULF.—The Dyersburg Northern Railroad Co. has amended its charter to change the name to the Chicago, Memphis & Gulf Ry. Co. and to increase the capital from $400,000 to $1,000,000. S. G. Latta is Pres. and E. Rice Vice-Pres. and Secy., at Dyersburg, Tenn. John H. Watkins is Second Vice-Pres., 2 Wall St., New York. Survey for an extension from Tiptonville, Tenn., to Hickman, Ky., has been started, as noted on Nov. 11.

CHICAGO, MILWAUKEE & ST. PAUL.—Plans for the depression of the C., M. & St. P. Ry. main line, I. & M. and H. & I. division, have been presented to the special grade crossings committee of the City Council, Minneapolis, Minn. The plans were prepared by Karl Oustad, City Bridge Engr. Estimated cost, $5,000,000. M. D. Rhame is Div. Engr., at Minneapolis. D. J. Whittemore is Ch. Engr., Chicago.

CHICAGO & NORTHWESTERN.—Extensions and branch lines and general betterments have been decided upon, and it is announced that the following new construction will be undertaken in 1910, aggregating nearly 500 miles: James River Valley & Northwestern, from Blunt, S. Dak., north to Gettysburg, with a branch from Onida east to Hitchcock; total, 125½ miles. Belle Fourche Valley, from Belle Fourche, S. Dak., easterly and southeasterly to a connection with the Pierre, Rapid City & Northwestern, 88 miles. Milwaukee, Sparta & Northwestern, from Lindwurm (Milwaukee), Wis., northwest via West Allis and Clyman to Sparta, 162 miles. Des Plaines Valley, from Proviso yards, Ill., north to Des Plaines and to a connection with the third and fourth tracks to Milwaukee, near Northfield, 21.86 miles. Sioux City, Dakota & Northwestern, from Hinton, Iowa, near Sioux City, north to a point near Hawarden, 28.18 miles. An extension from Dallas, S. Dak., westerly through Tripp County, 39.12 miles. E. C. Carter is Ch. Engr., Chicago.

CLARKSDALE & MISSISSIPPI RIVER.—Incorporated in Mississippi to build a railroad from Clarksdale, Miss., to a point on the Mississippi River. The incorporators are H. H. Hopson, F. P. Fitzgerald, W. J. Fisher and W. A. Alcorn, of Clarksdale.

DENVER, BOULDER & WESTERN.—W. B. Hayes, Pres., Boulder, Colo., advises us, under date of Nov. 18, "that under the reorganization of this company, $100,000 of bonds were set aside for extensions, betterments, etc., and are applicable for that purpose subsequent to Jan. 1, 1910. Press reports have stated that the extensions, etc., would be under way shortly, but such is not the case. At this time there are no definite plans for extensions of betterments. Certain matters are under consideration, but it is not likely that conclusions will be reached before the spring of 1910, if at that time."

DES PLAINES VALLEY.—See Chicago & Northwestern.

DYERSBURG NORTHERN.—See Chicago, Memphis & Gulf Ry.

ELIZABETHTOWN TERMINAL. — The Public Service Commission, Second District, Albany, N. Y., granted permission, on Nov. 16, to this company to build from Elizabethtown, N. Y., east to a connection with the Delaware & Hudson at Westport, in Essex County, eight miles. Noted fully on Nov. 11.

JAMES RIVER VALLEY & NORTHWESTERN.—See Chicago & Northwestern.

MARBURY & KINGSTON.—This company has been incorporated at Montgomery, Ala., with a capital of $25,000. The company proposes to build a road for lumbering purposes in Autauga County, between Marbury, on the Louisville & Nashville R. R., and Kingston, on the Mobile & Ohio R. R.

MILWAUKEE, SPARTA & NORTHWESTERN.—See Chicago & Northwestern.

MISSOURI, INLAND & SOUTHERN.—We are informed officially that this company is ready to negotiate with contractors for the grading of 50 miles of roadbed, averaging about 14,000 cu. yds. per mile. It also desires to hear from dealers in regard to the purchase of rails, equipment and all material necessary in the construction of a steam railway. E. E. Young, Licking, Mo., is Mgr.

NATIONAL RAILWAYS (of Mexico).—Bids will be received at the office of J. M. Reid, Ch. Engr. of the system, in Mexico City, until 6 p. m., Dec. 13, for doing the masonry and earth work on a 5.9 kilometer cut-off at Parendon, State of Nuevo Leon. Bids for the work must be marked "Anhelo-Parendon cut-off," and must be accompanied by a certified check for one thousand pesos ($500) payable to the National Railways of Mexico. Plans and specifications may now be seen at the offices of the division engineer, at either Monterey or Torreon, or at the office of the engineer of maintenance-of-way in Mexico City.

NEVADA COPPER BELT.—We are officially informed that contracts have been let to MORAN & JACOBS, Salt Lake City, Utah, and KANE & CONWAY, Nordyke, Nev., for building this railway from Wabuska to Ludwig, Nev., 30 miles. Surveys are partly made and right-of-way and capital are partly secured. Duncan McVichie is Ch. Engr., Dooly Block, Salt Lake City.

NEW MEXICO.—We are officially advised that a 200-mile steam railroad is projected to pass through a rich and rapidly developing section of New Mexico. G. H. Fisher, of Scranton, Pa., is interested, and desires to get in touch with a reliable railroad promoter.

NEW YORK, NEW HAVEN & HARTFORD.—Company has begun the reconstruction of over two miles of track on the Berkshire division between Brookfield Junction and Hawleyville. According to press report. The work will require about seven months and will cost several hundred thousand dollars. A considerable part of the track will be relocated. Over a mile of new roadbed will be constructed and three dangerous grade crossings will be eliminated. The roadbed will be built for double tracks, although only single track will be laid now.

PROVIDENT & GULF COAST.—Bids will be received until noon, Dec. 1, by the Schlafli & Porter Co., Engrs., 206 Stewart Bldg., Houston, Tex., for grading, bridging, track laying, etc., for about 35 miles of the Provident & Gulf Coast Railway. Profiles, plans and specifications may be had by depositing $10. The work will be let either as a whole or in part.

RUTLAND, TOLUCA & NORTHERN.—Incorporated in Illinois to build a railroad to run from Rutland, in La Salle County, to Toluca, in Marshall County, and thence to Granville, in Putnam County. The capital stock is $97,000. Don A. Moulton, Lewis Gray, Norman J. Ford, Guy E. Summers and William Botham, all of Chicago, are the incorporators.

SIOUX CITY, DAKOTA & NORTHWESTERN.—See Chicago & Northwestern.

WEST VIRGINIA RYS. CO.—Chartered in West Virginia to build about 186 miles of railway from Clifton Forge, Va., to Keyser, W. Va. Under this charter the portion of the line in West Virginia will be constructed from Keyser to a point on the Virginia boundary on the South Branch River, about 16 miles south of Franklin. Capital, $200,000, all subscribed. The incorporators are John J. Stoutenburg, John G. Roper and Verne M. Bovie, of New York City; Benj. H. Hiner, of Franklin, W. Va., and C. M. Lumsford, Monterey, Va.

ELECTRIC RAILWAYS.

MIDDLETOWN, CONN.—FRANK ARRIGONI & BRO., Newington, Conn., have been awarded contract by the Meriden, Middletown & Guilford Ry. Co. for building the line between Middletown and Durham. Francis Atwater, 510 Broad St., Meriden, is Pres.

ALBANY, N. Y.—We are officially advised that J. G. WHITE & CO., INC., engineers and contractors, 43 Exchange Pl., New York, have just been awarded the contract for the double-tracking of the Albany Southern R. R. between Rensselaer and Kinderhook Lake, N. Y., as well as the straightening of curves and the rehabilitation of a large amount of the present track of that company. In addition to the operation of its third-rail electric road between Albany and Hudson, N. Y., the railroad company furnishes electric light to the following towns: Rensselaer, East Greenbush, East Schodack, Nassau, North Chatham, Niverville, Valatie, Kinderhook, Stuyvesant Falls, Stottville. The railroad company also owns and operates gas plants in Hudson and Rensselaer, N. Y. The above properties are under the management of J. G. White & Co., Inc.

DANBURY, N. C.—The North Carolina Traction Co. of Danbury, has been chartered with $2,000,000 authorized capital, to build electric or other lines out of Danbury to other towns within 50 miles; also to develop timber and mineral lands. The incorporators are Dr. H. P. MacKnight, of Southern Pines, N. C.; E. Hillman, of Aberdeen, N. C.; W. C. Riffert, of Harrisburg, Pa.; and E. L. Krafft, of Indianapolis, Ind.

GROVELAND, GA.—The Magnolia Spring Co. has applied for a charter to build a street railway in Groveland; also authority to build power plants. Capital, $5,000. The incorporators are W. Elabee, M. E. Carter, L. Banks, E. A. Proctor, D. W. Warnell and W. C. Perkins, of Groveland, Ga.

COVINGTON, KY.—The Fiscal Court, which recently met at Independence, has awarded a franchise to the Cincinnati, Maysville & Lexington Traction Co. to operate in Kenton County. The franchise is for a period of 100 years, and provides for tax exemption for a period of five years. Similar franchises have been secured by the road in adjacent Kentucky counties, and, in many instances, the work of surveying has been completed, and all is in readiness for the laying of the tracks. In Kenton County, however, the route has not been determined upon, but it is thought will connect Erlanger, Crescent Springs, Independence and Sandfordtown on the main line and the branches. As noted on Oct. 7, the RELIANCE ENGINEERING CO., Fourth National Bank Bldg., Cincinnati, Ohio, has been awarded contract for engineering work connected with the construction of the Cincinnati, Louisville, Lexington & Maysville Traction Co.'s proposed line. W. T. S. Blackburn, Dry Ridge, Ky., is Pres. (Noted fully on June 10.).

FOSTORIA, OHIO.—We are officially informed that the Fostoria & Fremont Ry. Co. will let construction contracts in February or March, 1910. Surveys are not made. Right-of-way is partly secured. Capital has been obtained. The railway will be 21½ miles in length. F. D. Carpenter, Lima, Ohio, is Pres.; John W. S. Reigle, Findlay, Ohio, is Ch. Engr. Noted last week.

DELPHI, IND.—The electors of Deer Creek, Monroe and Burlington Townships of Carroll County on Nov. 9 voted a subsidy tax amounting to $68,475 in aid of the construction of the Delphi, Flora & Burlington Traction Co. This company was organized recently to build an electric railway connecting the places named in company's title. The line will be about 22 miles long. E. W. Bowen, Delphi, is Pres. Noted on Nov. 11.

DETROIT, MICH.—The Detroit, Lansing & Grand Rapids Ry. Co. plans to start construction about March 1 on the proposed railway which is to be extended from Detroit to Grand Rapids, via Lansing. The contract for surveying the right-of-way has been awarded to P. C. JOHNSON, Chicago, Ill. The motive power will be electricity. Headquarters, 706 Union Trust Bldg., Detroit, Mich.

ALBIA, IOWA.—We are officially advised that the Albia Interurban Ry. Co. probably will let contract in about six months for building a 9-mile extension from Albia to Burton. Surveys have been made. W. E. Gant is Mgr., Albia. Noted on Nov. 4.

CLINTON, IOWA.—The Clarke Construction Co., Chicago, is reported to be interested in the construction of interurbans between Sterling and Clinton and Dixon and Freeport, which, if built, will connect Chicago and Clinton by electric lines. This company will send a representative to investigate the possibilities of the building of the proposed lines.

IOWA CITY, IOWA.—The Iowa City, Ottumwa & Southwestern Elec. Ry. Co. has started a preliminary survey for its proposed line from Iowa City to Ottumwa.

LAWRENCE, KAN.—The City Council has granted to the Kansas City & Kansas Southwestern R. R. Co., of Kansas City, Mo., an extension to its franchise until April 1, 1910, it is reported, in which to begin work on the proposed railway. The plans of the company include the construction of electric railways between Kansas City and Topeka, by way of Tonganoxie and Lawrence, and the building of a railway from Lawrence to Independence, Kan. W. Laming is Pres., Kansas City, Mo.

ABERDEEN, S. DAK.—The City Council has granted the Aberdeen Street Ry. Co. a 20-year franchise. The company is to build four miles of track by Dec. 1, 1910.

EL RENO, OKLA.—The El Reno Interurban Ry. Co. has awarded a contract for the completion of its electric railway into El Reno from Yukon, to the ADAMS CONSTRUCTION CO., El Reno. Work has already been started. It is proposed to connect El Reno and Oklahoma City, a distance of 25½ miles. Noted on Aug. 12.

PASADENA, CAL.—The Pasadena Rapid Transit Co. has secured nearly the entire amount of capital necessary to construct its proposed line from Pasadena to Los Angeles, nine miles, it is stated. Horace Dobbins is Pres., Chamber of Commerce Bldg., Pasadena.

PRICE, UTAH.—The Castle Valley Elec. Ry. Co. has been incorporated in Wyoming, with $100,000 capital, to build from Price, Utah, to Cedar Creek Canyon. W. C. Rice, of Salt Lake City, Utah, is Pres.

ALBION, IDAHO.—The Albion Interurban Ry. Co. is making plans for building from Albion to Burley, 15 miles. E. J. Hunter, of Albion, is interested.

HAMILTON, ONT.—The Hamilton, Waterloo & Guelph Ry. Co. has applied to the City Council for a year extension of its franchise in which to complete its railway. John Patterson is Gen. Mgr.

CALGARY, ALTA.—The electors have passed a by-law authorizing an expenditure of $40,000 to be used for extensions and improvements to the local street railway.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

WOODSTOCK, VT.—The Woodstock Electric Co. has filed a certificate with the Secretary of State of an increase in capital stock from $22,000 to $40,000. Wilfred Smith is Supt. and Ch. Elecn.

MERIDEN, CONN.—Plans are being considered for the organization of a company to operate a small electric light plant in the rear of the Cahill Block to furnish electricity for lamps to the merchants in the Cahill Block and possibly to Poli's theater in Meriden. E. F. Donahue and the M. W. Booth Co. are interested in the project.

DUNDEE, N. Y.—Negotiations have been closed between the Village President and E. L. Bailey, owner of the Dundee electric light plant, for substituting the present incandescent street lamps of 25 c. p. for 80-c. p. tungsten lamps at an additional cost of $300 per year, making a total cost of $1,800 per year. The new lamps are to be installed at once.

CENTER MORICHES, N. Y.—The citizens have petitioned the Town Board for permission to form a street lighting district.

LITTLE FALLS, N. Y.—Preparations are being made by the Utica Gas & Electric Co., C. A. Grenige, Ch. Engr., Utica, N. Y., for the construction of a hydro-electric plant on the "Old Lovenheim Mill site" here. Estimated cost, about $100,000. H. W. Dennis, Niagara Falls, N. Y., is Engr.; N. J. Brayton, of Utica, is Pres.

BINGHAMTON, N. Y.—The Board of Managers of the Binghamton State Hospital and the State Commission in Lunacy at the State Hospital on Nov. 10 recommended that the State Legislature be petitioned for an appropriation of $55,000 for a new lighting plant.

FLORIDA, N. Y.—The Public Service Commission has authorized the Orange & Rockland Electric Co., R. W. Smith, Pres. and Mgr., Monroe, N. Y., to construct and operate an electric light system here. The Commission has also approved of the franchise granted to the company by the Town Board of Warwick. This company furnishes electrical service in Monroe and other towns in Orange County.

NEW YORK, N. Y.—Preparations are being made for the improvement of the lighting system in the parks, including the installation of about 1,500 tungsten lamps of 60 c. p. to replace about 400 gasoline lamps now in service. New lamps will also be provided for Prospect Park, Boro. Brooklyn.

NEW YORK, N. Y.—The new converter and battery substation to be erected by the New York Edison Co. on 41st St., between Eighth and Ninth Aves., will occupy the entire area of the lot, 50 × 98 ft., extending 105 ft. high above the curb, having basement, converter, cable mezzanine, switchboard and static platform, high tension mezzanine and two battery floors. On the roof at the rear end will be a pent house for a ventilating blower system. The exterior will be faced with red brick, with granite base and doorway and terra cotta trimmings at the windows and main cornice. Arrangements will be made for installing eight rotary converters on the main floor. The interior of the rotary room will be faced with a light colored buff brick, and a cast and wrought iron stairway will give access to all the floors and roof. Estimated cost, $120,000. William Weissenberger, Jr., 55 Duane St., is Arch.

PAINTED POST, N. Y.—The Corning Cut Glass Co. has installed an engine and dynamo in its plant to generate electricity for lighting.

NIAGARA FALLS, N. Y.—The Niagara Falls Hydraulic Power & Mfg. Co., Arthur Schoellkopf, Mgr., has installed a 10,000-HP. unit in its plant, making the seventh unit in the station. Contracts have already been placed.

FORT DU PONT (Delaware City post-office), DEL.—Bids were opened on Nov. 9 by Lieut. E. A. Stockton, Jr., Constructing Q. M., U. S. A., at Fort Du Pont, for electric lighting. Awards have been made as follows: Item 1, inside work, to A. D. GRANGER CO., 9 West St., New York, $5,073; Item 2, outside work, McCAY ENGINEERING CO., 9 East Lexington St., Baltimore, $5,369; Item 3, supplying apparatus, etc., WESTINGHOUSE ELECTRIC & MFG. CO., East Pittsburg, Pa., $2,490. In accordance with the terms, work is to be commenced immediately upon receipt of notice of award, and all to be completed within 100 working days. List of bidders noted last week.

STILL POND, MD.—Plans are being considered by Rev. John H. Beauchamp and Barnard Harper, of Still Pond, for an electric plant at Urieville, Md., to furnish electricity for lamps in Still Pond, Betterton, Kennedyville and Lynch. Estimated cost, $12,000.

WASHINGTON, D. C.—Bids were received as follows on Nov. 20 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for 75-KW. engine-driven generating set, Naval Medical School, Washington: McCay Engineering Co., 9 East Lexington St., Baltimore, Md., Item 3, $3,150. Ames Iron Works, 1210 Continental Bldg., Baltimore, Item 1, $3,195, $3,107, $3,159, $23 (deduct), $52 (deduct), $64 (deduct), $3,449, $3,867, $23 (deduct), $52 (deduct), $64 (deduct), $70 (deduct); Item 2, $600. G. & W. Mfg. Co., 26 Cortlandt St., New York, N. Y., Item 1, $3,397, $3,797; Item 2, $2,597, $2,997. Ball Engine Co., 1001 Arcade Bldg., Philadelphia, Pa., Item 1, $4,738. Harrisburg Foundry & Machine Works, Seventh and Curtin Sts, Harrisburg, Pa., Item 3, $3,868, $3,368, $300 (add conditionally), complete in eleven months. John B. Adt., 342 North Holliday St., Baltimore, Item 3, $4,011.

DANVILLE, VA.—The Dan River Power & Mfg. Co. contemplates the installation of a centrifugal pump direct connected to an induction motor for circulating feed water at its plant. T. A. Guy is Ch. Elecn.

POTOMAC, VA.—The Town Council has granted the ALEXANDRIA ELECTRIC LIGHT & POWER CO. a 30-year franchise to construct and operate an electric lighting system here and awarded the company contract to furnish 44 incandescent lamps for lighting the streets of the town.

RICHMOND, VA.—Bids are asked until 4 p. m., Dec. 14, by E. E. Davis, Supt. Water Dept., for constructing electric transmission lines.

HICKORY, N. C.—The Southern Power Co. is considering large developments on the upper Catawba River, near here, including the erection of another transmission line, surveys for which will soon be made. The company has contract to furnish electricity here.

ATHENS, GA.—The Athens Electric Railway Co. has secured control of Barnett Shoals, near here. It will develop 4,000 HP. for electrical transmission to Athens.

ST. PETERSBURG, FLA.—Arrangements are being made by the St. Petersburg Electric Light & Power Co. for the construction of a generating station driven by a Corliss engine or steam turbines, with turbo jet condensers, the equipment to include boilers, steel stocks, automatic stoker furnaces, pumps, feed water heater, generators, exciters, switchboard apparatus, transformers, converter, lightning arresters, etc. H. W. Platt is Mgr. and Ch. Elecn.

BRISTOL, TENN.—The Bristol Gas & Electric Co., S. M. Vance, Mgr. and Ch. Elecn., has made arrangements for the construction of a hydro-electric plant, to increase its present output and to provide for the future. Electricity will be transmitted to a substation near the city for distribution for lamps, heat and motors. Estimated cost, $250,000.

FULTON, KY.—The Swain-Karmire mill is preparing to install a private electric light plant at their mill. The plant will furnish illumination for the mill and lumber yards.

TOLEDO, OHIO.—Bids will be received by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., until Dec. 20 for the installation of a conduit and wiring system and a standard clock system in the U. S. post-office here.

COLUMBUS, OHIO.—C. L. Insche, Arch., has almost completed plans for a power-house on the farm of C. C. Johnson, eight miles west of the city on the National Pike.

NEW ALBANY, IND.—The Board of Public Works has rejected the bid of the United Gas & Engine Co. for furnishing electricity for street lighting for a term of ten years, beginning Sept. 1, 1910.

MANISTEE, MICH.—The Manistee County Hydraulic Co. has accepted the franchise granted by the Board of Supervisors of Manistee County. The company will commence work at once on the "Junction Dam," about 20 miles east of here, which is to be 43 ft. high and develop 3,800 HP.

ALPENA, MICH.—Prof. D. W. Mead, of University of Wisconsin, Madison, Wis., has completed plans for the construction of a hydro-electric power plant on Thunder River for the Alpena Power Co., of Alpena, Mich.

EAST ST. LOUIS, ILL.—The City Council on Nov. 15 awarded contract for lighting the city hall, police headquarters, fire-department stations and the streets for ten years, from March 1, 1910, to the CONSUMERS LIGHT, HEAT & POWER CO., St. Louis, at $70 per lamp per year.

OSHKOSH, WIS.—The Northern Hydro-Electric Power Co. has been granted permission by the State Commission to issue $1,000,000 of bonds, to be used for outstanding indebtedness, to construct dams at High and Johnson's falls on the Peshtigo River in Marinette County, and for the construction of power-houses and substations and necessary equipment and for the purchase of right-of-way and erection of transmission lines, etc.

PELLA, IOWA.—The City Council has engaged the Iowa Engineering Co. to supervise the installation of the municipal electric light plant and water-works system.

LEON, IOWA.—The Leon Electric Co. will erect a power-house, doing its own work. Estimated cost, $9,000. S. Johnston is Mgr.

WATERTOWN, IOWA.—The Village Board has granted the United Light & Power Co., of East Moline, Ill., W. H. Downing, Elecn., a 25-year franchise to furnish electricity for lamps and motors in Watertown. Under the franchise the village is given the privilege of purchasing the plant and equipment at the expiration of the franchise, and the company agrees to furnish arc lamps for street lighting at $70 each per year on all lamps under 25. All over that number will be supplied at $65.

WAVERLY, KAN.—Improvements will be made to the municipal electric light plant, including the installation of complete new power equipment, consisting of engine, generator, boiler, pump feed water heater, exciter, etc.

MINERAL, KAN.—The City Council has granted Henry Arnold & Co. a franchise to construct and operate an electric light plant here.

LINCOLN, NEB.—The investigating committee appointed by the City Council has recommended the installation of an additional 500-HP. engine and generator and other equipment to increase the output of the municipal electric plant to meet the increased demands. Estimated cost, about $10,000.

FORT LINCOLN, N. DAK.—Contract for electric wiring and installing electric fixtures in buildings at Fort Lincoln has been awarded to the ELECTRIC CONSTRUCTION CO., of St. Paul, Minn., at $24,998. J. D. Elliott is Constructing Q. M., U. S. A.

FARGO, N. DAK.—Bids will be received until Dec. 7 by Arthur G. Lewis, County Audr., for wiring county hospital.

MILBANK, S. DAK.—The MINNEAPOLIS STEEL & MACHINERY CO. has been awarded contract for furnishing a Muenzel producer-gas engine and gas producer plant for the electric light plant at Milbank, which is owned by Oscar Claussen. Consulting Engr., St. Paul, Minn.

ST. LOUIS, MO.—The Light & Power Development of St. Louis has renewed its application for a 30-year franchise to furnish electricity here. The Light & Development Co. owns and operates the Cape Girardeau Light & Power Co., Cape Girardeau, Mo., and is operating the Paris Electric Light & Power Co., of Paris, Tex., and also the Paris Transit Co., of Paris, and operates light and power plans in the Wright and Chemical buildings, and the plant in the Famous and old Grand Leader buildings here.

KANSAS CITY, MO.—The Consolidated Light & Power Co. has applied to the City Council for a renewal of its franchise, which expires on Feb. 20, 1910, asking for permission to charge the same rate for electricity for domestic lamps and a sliding scale of from 4 to 9 cts. per KW.-hour for commercial lighting.

ASH GROVE, MO.—The establishment of an electric light plant in Ash Grove is being considered.

ELGIN, TEX.—K. F. Leggett, of Livingston, Tex., is contemplating the installation of an electric light and ice plant, conditional franchise having been granted to Mr. Leggett to establish an electric plant.

LEWISVILLE, TEX.—The Lewisville Light & Power Co., of Lewisville, has been incorporated with a capital of $20,000. The corporators are: J. M. Hendrix, Charles C. Thomas and Otis Wyatt.

APACHE, OKLA.—The City Council has engaged the Southwestern Engineering Co., of Oklahoma City, Okla., to prepare plans for the construction of an electric light plant and water-works and sewer systems. H. Peeper is Mayor.

POTEAU, OKLA.—The Poteau Electric Light & Ice Co., R. C. Alexander, Ch. Engr., has engaged H. L. Nichols & Co., Engrs., Muskogee, Okla., to prepare plans for an electric light plant, water-works system and ice-manufacturing plant.

NEW CASTLE, COLO.—Bids will be received until Nov. 30 by J. E. Smith, Town Recdr., for furnishing and delivering f. o. b. New Castle, machinery and material for the municipal electric light plant, as follows: Steam engine and belts, alternating-current generator and exciter, switchboard, transformers and series lighting equipment, line material and supplies.

ALBUQUERQUE, N. MEX.—Bids will be received until Dec. 1 by John B. McManus, City Clk., for two 10-in., four 3-in., two 4-in. and two 5-in. vertical centrifugal pumps and two 20-HP., four 2-HP., two 3-HP. and two 5-HP. vertical motors.

ENTAIT, WASH.—The Gullage tract, consisting of 225 acres, at the mouth of the Entait River, has been purchased by Charles Gray and others to build a dam and erect a power plant to furnish electricity to operate an electric railway from Douglas to Waterville.

BIG PINE, CAL.—The Buckeye Mining & Smelting Co. desires equipment for a power plant, which will include a 400-HP. electric unit, with exciter and other auxiliary apparatus.

CHICO, CAL.—The Sacramento Valley Power Co. has secured franchise for erecting a system for the distribution of electricity here. The company was the only bidder for the franchise advertised by the City Trustees. It expects to have its transmission line extended from Redding and to furnish electrical service in Chico by February, 1910.

MARTINEZ, CAL.—Bids will be received by the Board of Supervisors until Dec. 6 by J. H. Wells, Clerk, for a 50-year franchise to erect poles and wires over the roads and highways in Contra Costa County. Application has been made by H. B. Kinney.

LOS ANGELES, CAL.—Plans are being prepared by Col. C. E. Apponyi for using the Colorado River to develop water-power to generate electricity for transmission to the mining camps of Arizona and Nevada. The plans provide for the construction of a hydro-electric plant at the first rapids above the head of high water navigation, about 180 miles from Needles, Cal., and between Lincoln County, Nev., and Mojave County, Ariz., where water rights have been secured on a strip of five miles, where the plant is to be established. The proposed plant, it is estimated, will generate about 30,000 HP. Four successive turbo-generator units, each working under a 50-ft. head, will be installed. Electricity can be transmitted to Tonopah, Nev., 170 miles distant, and to Prescott, Ariz., a distance of 160 miles, and to intermediate points.

SAN FRANCISCO, CAL.—See item under Buildings.

GLOBE, ARIZ.—Plans are being considered for the installation of a hydro-electric power plant at Apache Falls, 30 miles above the Roosevelt dam on Salt River, to furnish electricity here, 35 miles distant. Estimated cost, about $400,000. George Hill, J. B. Newman, P. Jones, E. Stewart and George Shanley, of Globe, are interested.

SALT LAKE CITY, UTAH.—The Salt Lake & Ogden Ry. Co. has commenced constructing its power station at Lagoon. Estimated cost, with equipment complete, about $200,000. The company will erect substations costing $25,000 each at Stockdale, Lagoon, Clearfield and Ogden.

OGDEN, UTAH.—Applications for water right for electrical power purposes, totaling 25 cu. ft. per second of the flow of tributaries of Ogden River, have been filed with the State Engineer, Salt Lake City, by L. B. Spencer, Ogden. Power plants will be erected to supply electric power to Salt Lake, Ogden and Huntsville, Weber County.

FORT DOUGLAS, UTAH.—We are officially advised that contracts for the construction of electric lighting system here were awarded on Nov. 15 as follows: Item 1, for wiring of certain buildings and the furnishing and installing of fixtures as given in schedule in specifications, to METEOR ELECTRIC CO., INC., Salt Lake City, at $9,419; Item 2, for constructing primary, secondary, service, transmission and street light lines, furnishing and installing cut-outs, lightning arresters, street lamps, brackets and transformers, in accordance with specifications, to SALT LAKE ELECTRIC SUPPLY CO., at $11,749; Item 3, for furnishing and installing all apparatus and furnishing all wattmeters for buildings, in accordance with specifications, to F. E. NEWBERRY, St. Louis, Mo., at $4,065; Item 4, for construction of a building for transformer substation in accordance with specifications, to same, at $2,290. First-Lieut. K. P. Williams is Acting Q. M., U. S. A. List of bidders noted on Nov. 4.

BRIDGES.

(* *denotes that this work is advertised in Engineering News.*)

LAWRENCE, MASS.—M. O'MAHONEY, Lawrence, has been awarded contract at about $10,000 for constructing a crushed stone and cement culvert in Ward 1.

ALBANY, N. Y.—The Common Council has approved plans prepared by the New York Central R. R. Co. for the construction of a bridge 122 ft. long and 10 ft. wide over the Columbia Turnpike.

BRIDGEPORT, N. Y.—Contracts for constructing a bridge over Chittenango Creek here have been awarded as follows: Approach and abutments to C. T. HOOKWAY, of Bridgeport, at about $3,800; superstructure and span to CLIMAX ROAD MACHINE CO., Marathon, at $6,900. The bridge will be one span 150 ft. long.

BUFFALO, N. Y.—Bids will soon be asked by F. C. Stevens, Supt. Pub. Wks., Albany, for constructing a highway bridge over the Erie Canal at Georgia St., Buffalo. Estimated cost, $15,000.

ROME, N. Y.—Bids will be received by the Board of Public Works until Dec. 6 for the construction of a riveted steel highway bridge over the Mohawk River at the proposed extension of East Bloomfield St. J. L. Plunkett is City Engr.

NEWTON, N. J.—The Erie R. R. Co., F. L. Stuart, Ch. Engr., 50 Church St., New York, has submitted plans to the Board of Freeholders for the construction of a bridge over the railroad tracks at Beaver Lake.

LILLY, PA.—The Pennsylvania R. R. Co. Alexander C. Shand, Ch. Engr., Philadelphia, proposes constructing three 200-ft. span steel bridge here with reinforced-concrete pier and abutments.

PITTSBURG, PA.—The bridge to be constructed at Sylvan Ave. will cost about $130,000. N. S. Sprague is Supt. Bureau of Construction.

HOMER CITY, PA.—The County Commissioners have let contract for the bridge across Yellow Creek at Homer City, to the YORK BRIDGE CO., York, Pa., at $4,450. It will be of the plate girder type.

BALTIMORE, MD.—B. T. Fendall, City Engr., has announced thet he will receive bids after Jan. 1 for the construction of a new 100-ft. span steel bridge over Gwynn's Falls at the Franklin Road. The structure will be of a plain design and will cost about $6,000 or $7,000. The stone abutments and foundations of the old structure will be used for the new work. The bridge will be about 35 ft. wide.

SUFFOLK, VA.—The Seaboard Air Line Ry., W. L. Seddon, Ch. Engr., Portsmouth Va., will not construct bridge at Kilby Station.

MANCHESTER, VA.—The Virginia Railway & Power Co. will construct a bridge over the Atlantic Coast Line cut on Semmes Ave., Manchester and Forest Hill line. The span will be 120 ft. long, 20 ft. wide, and will cross tracks at elevation of 20 ft.

WHEELING, W. VA.—The City Council has rejected all bids recently received for the superstructure of Market St. Bridge. New bids will be received by the Board of Control. Cost, about $17,700. The Board of Control on Nov. 16 awarded contract for this work to the McCLINTIC-MARSHALL CONSTRUCTION CO., Pittsburg, Pa., at $17,000. Later the Council rescinded the award and rejected all bids.

COLUMBIA, S. C.—Seaboard Air Line Ry., W. L. Seddon, Ch. Engr., Portsmouth, Va., has petitioned the city for the privilege of constructing a steel-girder bridge with capacity for two tracks at Taylor St. and to widen wooden bridge at Blanding St. about 25 ft.

MILTON, FLA.—The Santa Rosa County Commissioners are considering the construction of a bridge across the Escambia River.

ARCOLA, MISS.—L. J. ARAKINER has been awarded the contract for repairing the bridge over Deer Creek at Arcola. The bridge is 200 ft. across and is being refloored with cypress boards 2 × 6 ins. × 16 ft.

NEW ORLEANS, LA.—Bids will be received until Nov. 29 by Charles R. Kennedy, City Controller, for the removal and reerection of the existing steel bridge on Carrollton Ave. over the Mobile Canal at a point over the Clarborne Canal on the line of Louisiana Ave.; also repair of the drawbridge over the New Basin Canal on the axis of Galvez St.

The following bids are the bids opened for a combined roadway and bridge over Orleans Canal on a line of City Park Ave.: The Stern Foundry Machinery Co., $45,000; A. L. Patterson & Co., $22,800; the Penn Bridge Co., Beaver Falls, Pa., $20,900; Muir & Fromherz, $17,250.

KNOXVILLE, TENN.—The Board of Public Works has awarded contract for constructing the Asylum Ave. viaduct to FOSTER-CREIGHTON-GOULD CO., of Nashville, at $47,113. The structure is to be of reinforced-concrete girder construction. Other bids were as follows: H. B. Thompson Co., Birmingham, Ala., $47,912; Schilling Bros. Co., Columbus, Ohio, $68,695; T. W. Keller, Knoxville, $52,308; W. A. Park Co., Knoxville, $50,998; J. B. Smith & Co., Knoxville, $53,685; S. P. Condon, Knoxville, $48,364; Carolina Engineering Co., Burlington, N. C., $65,266; David Getaz, Son Co., Knoxville, $48,925.

MEMPHIS, TENN.—The Lakeview Traction Co. has placed contracts for $65,000 worth of bridge and structural material to be used in the completion of the road between Memphis and Lakeview. The JOLIET BRIDGE CO., Joliet, Ill., secured the steel bridge contract at $20,000, and will begin work at once on the line. The ILLINOIS STEEL CO., 115 Adams St., Chicago, Ill., secured the contract for 1,320 tons of steel rails, spikes and other track equipment at $45,000.

HUNTSVILLE, OHIO.—Bids will be received by the Board of Commissioners of Logan County, Bellefontaine, about Feb. 10 for constructing a 62½-ft. steel bridge with concrete floor and abutments, in Huntsville. W. S. Jones is County Audr.; C. M. Ritchie is County Engr.

MANSFIELD, OHIO.—Plans are being prepared for a 112-ft. truss bridge for Richland County. Bids will be received until Dec. 14. C. L. Bushey is County Surv.

DAWSON, OHIO.—The Board of Commissioners of Shelby County, W. A. Looker, Engr., Sidney, is preparing plans and will soon ask for bids for a bridge over the canal, at Dawson. It will be a 50-ft. steel span hand-power swing bridge, with center pier concrete and concrete abutments.

ROCHESTER, IND.—Bids will be received by the Board of Commissioners of Fulton County until 2 p. m., Dec. 7, for repairing a steel bridge. G. W. DuBois is County Audr.

RICHMOND, IND.—Bids will be received by the Board of County Commissioners until 11 a. m., Nov. 27, for the construction of a fill and grading the east approach of the Armentrout bridge. Demas S. Coe is County Audr.

INDIANAPOLIS, IND.—The Commissioners of Marion County are preparing to ask for bids for the construction of a bridge over White River on West New York St. The structure will be of stone and concrete.

JEFFERSONVILLE, IND.—The City Council has taken steps toward the building of a bridge for wagons and street cars across the Ohio River.

NORTH VERNON, IND.—MILLER BROS., concrete bridge contractors, have secured contract to construct $65,000 worth of cement bridges for the L. & N. R. R.

*PEORIA, ILL.—We are officially advised that no bids were received on Nov. 6 for the removal of the fallen concrete bridge across the Illinois River, at Bridge St. George F. Simmons is Comr. Pub. Wks.

NEWTON, KAN.—Bids will be received by the Board of Commissioners of Harvey County until Dec. 7 for the construction of one 3-span pile bridge, between Harvey and Butler Counties.

LEAVENWORTH, KAN.—Bids will be received by the Board County Commissioners until Dec. 6 for constructing three steel span bridges, to be 60, 70 and 48 ft., respectively, all to have 14-ft. roadways; also at bridge site No. 98 a box or arched concrete culvert or a vitrified sewer pipe culvert with an opening of at least 16 sq. ft. and a leading wall at each end. J. W. Nichaus is County Clk.

O'NEILL, NEB.—Bids will be received by W. P. Simar, County Clk., until noon, Dec. 1, for the construction of a bridge across Cache Creek, to consist of 30-ft. span steel I beams and red cedar.

ST. LOUIS, MO.—We are officially advised that bids were received by the city on Nov. 16 for constructing the superstructure of river spans, three, of the municipal bridge over the Mississippi River. The bidders were (a) Pennsylvania Steel Co., Steelton, Pa., (b) AMERICAN BRIDGE CO., 50 Church St., New York (awarded contract); (c) McClintic-Marshall Construction Co., Park Bldg., Pittsburg, Pa.: Superstructure complete with nickel steel trusses, (a) $1,684,379; (b) $1,393,931 (awarded on this bid); (c) $1,674,385. Superstructure complete with carbon-steel trusses (with nickel steel eyebars), (a) $1,644,429, (b) $1,393,931, (c) $1,574,784. Nickel steel additions or deductions per lb., (a) 6.3 cts. (b) 5.6 cts., (c) 7.31 cts. Carbon-steel additions or deductions per lb., (a) 4.6 cts., (b) 3.95 cts., (c) 4.45 cts.

PINE BLUFF, ARK.—The Arkansas, Louisiana & Gulf R. R., J. M. Parker, Gen. Mgr., Hamburg, Ark., will have plans and specifications prepared by A. M. Blodgett Construction Co., Kansas City, Mo., for a bridge to be constructed across the Arkansas River.

DALLAS, TEX.—Bids are asked by the city until 3 p. m., Nov. 26, for furnishing tools, labor and materials to build reinforced-concrete bridge over Turtle Creek at Cedar Springs Ave. Estimated cost, $7,000.

*MERCED, CAL.—Bids for the construction of a steel bridge across the Merced River, on the Stevinson Colony and Merced River Road, in road district No. 4, will be received at the office of P. J. Thornton, Clk. Bd. Supervisors of Merced County, until 10 a. m., Jan. 4.

SALINAS, CAL.—Bids will be received by the Clerk of the Board of Supervisors until 2 p. m., Dec. 7, for the construction of a highway bridge on reinforced-concrete piles, across the small slough on the north side of Paul's Island in Monterey County. T. P. Joy is Clk.

BUILDINGS.

(* *denotes that this work is advertised in Engineering News.*)

SPRINGFIELD, MASS.—We are officially advised that bids for a 5-story steel, stone and brick Fire Headquarters building, to cost $90,000, will be received about Dec. 1. by B. Hammett Seabury, 21 Besse Bldg., Springfield.

BOSTON, MASS.—Plans have been prepared by Andrews, Jaques & Rantoul, Archs., 50 Congress St., for a group of buildings covering an entire block. The buildings have been designed to conform with the architecture of the quarter, which is mainly renaissance. The general materials are red brick, with broad white joints, Indiana limestone and copper. All the buildings will be of fireproof construction, six stories in height. Contract has been let to the GEORGE B. H. MACOMBER CO., 16 State St., for the erection of that portion of the building at the westerly end of this block, having a frontage of 90 ft. and covering an area of over 10,000 sq. ft., and work thereon will be started at once.

NORTH ADAMS, MASS.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, has rejected all bids recently received for the construction of a post-office at North Adams, Mass., and has asked supplemental bids from the three lowest bidders on the basis of revised specifications.

RIVERHEAD (L. I.), N. Y.—George A. Miller, Chn., and J. Fred Flugarth, Clerk of the Suffolk County Bd. of Supervs., have made an agreement with William J. Beardsley, 49 Market St., Poughkeepsie, N. Y., under which Mr. Beardsley is employed as the supervising architect for drawing the plans of and supervising the construction of the new jail. Under the terms of the agreement, Mr. Beardsley is to furnish full architectural services and regular supervision of all the work, and is to furnish a competent superintendent during the erection of the jail. The proposed jail is estimated to cost about $175,000. The plans for the jail anticipate 145 cells, with all the modern improvements for sanitation, light and the control of prisoners. The building will be 168 × 48 ft., three stories high, and will have separate lighting, water and sewage disposal plants. There will be a 12-ft. concrete wall around the jail. It is expected that the general contract will be let this fall. Noted on Oct. 21 and Nov. 11.

WATERTOWN, N. Y.—The New York Central & Hudson River R. R. Co. is having plans prepared by Reed & Stem, and Warren & Wetmore, 314 Madison Ave., New York, for a new $200,000 passenger station at Watertown. E. W. Kittredge is Ch. Engr. No contracts have yet been let.

SYRACUSE, N. Y.—Charles M. Warner will erect a 5-story mercantile building on the site of the present property at 446 to 456 South Salina St. The plot has a frontage of 81 ft. Estimated cost of building, $100,000.

LONG BEACH (L. I.), N. Y.—J. Russell Pope, 527 Fifth Ave., New York, is preparing plans for a pier, shed and theatre to be built for the Long Beach Estate, 225 Fifth Ave., New York, at about $1,000,000. John L. De Saulles is Gen. Mgr.

CENTRAL ISLIP (L. I.), N. Y.—It is stated that bids probably will be received about Dec. 15 for construction of a State hospital, to cost $300,000. Franklin B. Ware, Capitol, Albany, is State Arch.

NEW YORK, N. Y.—A building, consisting of two wings and a tower, is to be erected at West and Washington Sts. by the Battery Place Realty Co. The wings will be 16 and 31 stories high, and the tower, which will connect the new structure to the present building, will have 36 stories. The structure will be fireproof, of brick, stone and terra-cotta, and will cost $4,600,000. Clinton & Russell, 32 Nassau St., are Archs. The general contract has been let to the GEORGE A. FULLER CO., Fuller Bldg., which is taking estimates on all branches of construction.

NEW YORK, N. Y.—A 6-story warehouse and loft building is to be erected by the Becker Realty Co. at the southeast corner of Greenwich and Charlton Sts., from designs by Schneider & Dieffenbach, 220 Broadway, to cost $65,000.

Plans have been filed for a 4-story loft and store building to be built for Sarah J. W. Bent, as owner, replacing the old store building at the northeast corner of Sixth Ave. and 14th St. It will be fireproof, from designs of Moore & Landsiedel, Archs., 148th St. and Third Ave., with a frontage of 56.7½ ft. and a depth of 75 ft., and costing $50,000.

An elevator apartment house is to be built at the northeast corner of Riverside Drive and 158th St., Washington Heights. The plans are now in course of preparation by F. D. Brown, Arch., 33 East 20th St. The building will have nine stories, and measure 75 × 99 ft. ALEXANDER BROWN, JR., 33 East 20th St., is the general contractor. No figures will be asked before the first of December. The estimated cost will approximate $400,000.

Plans have been filed for a 12-story and basement apartment house, to contain 49 suites of rooms and to be known as the Brookfield Apartments, to be erected at a cost of $800,000 at the southeast corner of Riverside Drive and 103d St., from designs by Lawlor & Haase, Archs., 69 Wall St.

Plans are complete for a 12-story apartment house, to contain 25 suites, to be built from designs by Schwartz & Gross, Archs., 347 Fifth Ave., at a cost of $300,000, for Weschler & Noel, Inc., on 79th St., east of Amsterdam Ave.

NEW YORK, N. Y.—On Nov. 18, Oscar Hammerstein filed plans with the Building Bureau, Brooklyn, for his proposed opera house, in Grant Sq., Brooklyn, which is to cost $1,250,000. The Hammerstein Brooklyn Opera House Co. is named in the specifications as owner. The officers of the company are Oscar Hammerstein, Pres.; Edwin B. Root, Secy; and Arthur Hammerstein, Treas. W. H. McElfatrick, 1402 Broadway, New York, is Arch. The plot in Bedford Ave., between Bergen and Dean Sts., which has been selected, is unimproved, so that work on the foundation can begin as soon as the plans are approved. The general scheme of the new opera house will be the same as that of the Hammerstein Philadelphia opera house. The building will be 85 ft. high. There will be five stories. The main entrance will be on Dean St., with a side entrance on Bedford Ave., and the stage entrance will be on Bergen St. The building will extend the full length of the block, 220 ft. along Grant Sq. The structure will be of brick, stone and terra cotta. The foundations are to extend only ten feet below ground, and will be constructed of brick and concrete. The auditorium will seat 3,074. The orchestra will have 900 seats, the grand tier boxes, 150; the balcony, 900; the gallery, 980; and the proscenium boxes, 144. The orchestra will be practically at the street level. There will be wide vestibules and foyers and large coat rooms. There will be 25 grand tier boxes, arranged in a semicircle above the orchestra seats, each box seating six. Besides, there will be 24 proscenium boxes, each with the same capacity.

C. CURTIS WOODRUFF & CO., 213 Tenth St., Long Island City, has secured the general contract to erect a 6-story brick, granite and marble apartment house at 144-146 East 40th St., New York, from plans by Walker & Gillette, Archs., 131 West 40th St. Cost, about $45,000.

Ernest Flagg, Arch., 35 Wall St., for the Model Fireproof Tenement Co., has filed plans for a model tenement to be erected on the plot at 506 to 516 West 47th St., replacing a row of six old-fashioned frame buildings. It is to have a frontage of 100 ft. and a depth of 88.5 ft., and will be of a modern design, with marble-trimmed windows. It will contain stores and 18 suites of rooms on the first floor and 24 suites on the five upper stories, with several bathrooms to each floor. It is to cost $95,000, and will be one block east of the company's first tenement, the plans for which were filed last month.

John M. Bowers, 7 West 21st St., has awarded to RICHARD DEEVER & SON, 300 Broadway, the general contract to erect a 5-story residence, 28x100 ft., of brick and limestone, at 45 East 65th St., to cost $60,000. Hoppin & Koen, 244 Fifth Ave., are Archs.

Plans have been filed for adding two wings at the north and east of the 4-story Public School No. 78, at Pleasant Ave., from designs by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, at a cost of $167,000.

Young & Gronenburg, Archs., 67 West 36th St., have just completed plans for three 5-story apartment houses for the Bronx that will cost $200,000. The houses are to be erected in Westchester Ave., to West Farms Road, north to Hoe Ave. They will be of brick with trimmings of limestone. The houses are to be built for the Friedman Construction Co.

The same architects have won a competition to prepare plans for five apartment houses to be erected by David Herman, of 132 Nassau St., at the junction of Wilkins Pl. and Intervale Ave. The cost is about $300,000.

Plans have been filed for a 6-story city residence to be built for Charles C. Auchincloss, at 10 East 71st St. It will be of brick, finished with decorated French limestone of Colonial pattern, having a second-story balcony and a mansard with a balustrade. It is to have a frontage of 25 ft. and a depth of 71½ ft., and will cost $60,000.

NEW YORK, N. Y.—On Nov. 8, Nicholas J. Hayes, Fire Comr., received the following bids for furnishing all the labor and materials for the erection and completion of a building for an engine and a hook and ladder company on southwest corner of Smith and Loraine Sts., Boro. of Brooklyn: THOMAS J. WATERS CO., 217 West 125th St., New York, $69,400 (awarded contract); T. J. Buckley Construction Co., $77,999; Morningside Construction Co., $81,174; C. J. Hirgan, $85,400; Richard Carval Co., $78,000; John Kennedy Co., $77,211; George Hilderbrand, 38 Park Row, $78,420; J. H. Parker Co., 1 Madison Ave., $85,950; Conroy Bros. & Co., Inc., $76,777; George F. Driscoll, $75,498; J. F. Walsh Construction Co., $73,007; James F. Kerr, $77,635; United Plumbing & Contructing Co., $79,000.

The following bids were received on Nov. 18 by the Park Board: work and materials for the furniture and equipment of the New York Public Library, Astor, Lenox and Tilden foundations, Fifth Ave., 40th St. and 42d St., Boro. of Manhattan: T. D. Waddleton, 169 Fifth Ave., New York, $560,000; L. Marcotte & Co., 12 West 36th St., $685,000; Cobb Construction Co., $665,425; John Gill & Son, 12 West 31st St., New York, $597,000; A. H. Davenport Co., 150 Madison Ave., New York, $627,942; Library Bureau,

316 Broadway, New York, $760,820; Lord Construction Co., $632,000; Thomas Dwyer, $695,200; John Pierce, $654,900; George W. Smith & Co., 334 Fifth Ave., New York, $579,440.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, until 3 p. m., Dec. 6, for the general construction, etc., of additions to and alterations in Public School No. 78, on the northeast corner of Pleasant Ave. and East 119th St., Boro. of Manhattan; for improving the premises at Public School No. 39, Roanoke Ave. and State St., Far Rockaway, Boro. of Queens; for the general construction, etc., of new Public School No. 92, on the northerly side of Park Ave., between Grinnell and Randall Sts., Corona, Boro. of Queens; for fireproof stairways, etc., at Public School No. 20, Union Ave. and Keap St.; Public School No. 29, Columbia and Amity Sts., and Public School No. 49, Maujer St., near Graham Ave ("A" for iron construction, and "B" for alternate reinforced concrete construction), Boro. of Brooklyn.

Bids are asked by the Park Board, Henry Smith, Pres., until 3 p. m., Dec. 9, for all labor and materials required for the erection and completion of Addition "H" to the Metropolitan Museum of Art, exclusive of interior finish and plant, located in Central Park, on the west side of Fifth Ave., opposite 83d St., Boro. of Manhattan.

ROCHESTER, N. Y.—We are officially advised that H. D. Whitfield, 160 Fifth Ave., New York, has completed revised plans and has taken new figures for a 2-story laboratory and Applied Science Building, 40 x 60 ft., for the Rochester University. Estimated cost, $50,000. It is expected that contracts will be let about Dec. 15.

ALBANY, N. Y.—The HUDSON VALLEY CONSTRUCTION CO., of Troy, N. Y., has been awarded a contract by J. A. P. Ketcham, of Saratoga, N. Y., for the construction of a building, to be used as a garage, at the corner of Washington Ave. and Northern Boulevard, Albany. The structure will be of reinforced concrete construction, 66 x 144 ft., and two stories in height. The exterior of the building will be pressed brick, with stone and terra-cotta trimmings. Work will be begun at once.

NEW BEDFORD, N. Y.—The bids received on Nov. 12 by the Board of Managers of the New York State Reformatory for Women, at New Bedford, N. Y., for the construction of Cottage "A" for inmates, including heating, plumbing and electric work, were: George Sykes, 1123 Broadway, New York, $29,970; Westchester Engineering Co., New York, $30,936; D. F. Dakin & Co., Mt. Kisco, N. Y., $32,874; Wills & Marvin Co., New York, $34,555; Ross-Busch Co., New York, $34,967; H. Probst, 103 Park Ave., New York, $34,908; L. C. Remsen, Mt. Kisco, N. Y., $35,422; H. M. Weed Building & Decorating Co., New York, $36,666. F. B. Ware is State Arch., Capitol, Albany.

LAKEWOOD, N. J.—Plans are being prepared by D. Wiley Anderson, Arch., 922 East Main St., Richmond, Va., for a hotel and sanitarium to be erected on Lakewood Terrace, Lakewood, N. J., for the Lakewood Terrace Hotel & Sanitarium Co., 627 Witherspoon Building, Philadelphia, Pa. T. B. Shertzer, care Public Service Commission, 154 Nassau St., New York, is Engr. The building will be of brick, reinforced concrete and hollow tile, four stories high and 200 x 140 ft. It will have a refrigerating plant of 50 tons capacity. On March 25 last we stated: "We are advised by Dr. A. Trego Shertzer, 25 West Preston St., Baltimore, Md., that he and George E. E. Timanus and William A. Blossom, of Baltimore, Md., have obtained letters of incorporation at Lakewood for the construction of a sanitarium, at Lakewood Terrace, to cost $125,000. The building will be of brick or stone, four stories high, and surrounded by more than five acres of ground. The tract is located 1½ miles from Lakewood and 9 miles from the ocean. The building will contain 100 bedrooms and an electric light plant. A central building with two wings will be erected of brick, stone or concrete. T. B. Shertzer, C. E., has prepared plans for the sewerage, water supply, etc. Dr. A. Trego Shertzer is Pres. of the Lakewood Terrace Hotel & Sanitarium Co."

*RIDGEWOOD, N. J.—Bids are asked by the Board of Education, until 8 p. m., Nov. 29, for the construction of a new school building, to be erected on the southeast corner of Harrison and Fairfield Aves., Ridgewood, N. J.; also for the erection of the addition to the Kenilworth Pl. school, located on Kenilworth Pl., Ridgewood, N. J.; also for the erection of the addition to the Monroe St. School, located on Monroe St., Ridgewood, N. J. Plans and specifications and all necessary information can be obtained at the residence of Eugene A. Lane, District Clerk, 119 West Ridgewood Ave., Ridgewood, N. J., or at the office of Herman Fritz, Arch., News Bldg., Passaic, N. J.

PITTSBURG, PA.—The Pittsburg Athletic Association Land Co., Farmers Bank Bldg., through its Board of Directors, has let a contract to the HENRY SHENK CO., Lewis Block, Pittsburg, Pa., for the completion of the association's club house, being erected at Fifth Ave., Grant Boulevard and Lytton Ave., on the Schenley Farms. The contract was originally let to the P. W. Finn Construction Co., but owing to difficulties which that firm had with the county in the contract for the building of the Soldiers' Memorial Hall work by them was discontinued. The club house will be completed for occupation about Sept. 1, 1910.

READING, PA.—Bids are asked by Henry J. Blauvet, Arch., Mariner & Merchant Bldg., Philadelphia, until Nov. 26, for the construction of a hotel at Reading, Pa., for the Reading Hotel Co., care of John H. Kepplemen and E. R. Gerber, Reading, Pa. The estimated cost is $500,000.

PHILADELPHIA, PA.—Bids were received as follows on Nov 18 at the office of James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, for the construction of an addition to the Marine Barracks at Philadelphia, Pa.: Appleton & Burrell, 1204 Chancellor St., $189,388; R. C. Ballinger, 218 North 13th St., $186,437; Herman Probst, 103 Park Ave., New York, $189,736; A. Whitehead, 1624 Latimer St., $181,000; Edward F. Fonder, Land Title Bldg., 188,686; B. Ketcham's Son, 1029 Brown St., $179,651; W. E. Dotts & Co., 148 North Second St., $194,444; Horace B. Deal & Co., $174,079; Cramp & Co., Commonwealth Bldg., $165,000; James G. Doak & Co., 1420 Chestnut St., $179,890; J. E. & A. L. Pennock, Land Title Bldg., $175,800; Thomas Rielly, $195,583; John R. Wiggins Co., Heed Bldg., $171,631; Metzger & Wells, Heed Bldg., $187,392; Fred A. Havens & Co., Perry Bldg., $196,819; Mitchell Bros., 2125 Race St., $182,375; H. E. Havens, Girard Bldg., $181,585; Charles McCaul Co., Tenth and Sansom Sts., $168,495; Penn Bridge Co., Bond Bldg., Washington, $189,787; Edward Fay & Sons, 2666 Richmond St., $179,890; A. Raymond Raff, 1635 Thompson St., $187,000; P. J. Hurley, 1216 Chancellor St., $183,000. All bidders of Philadelphia, unless otherwise specified.

Plans have been posted for a store building to be erected at 730 Market St. by Lit Bros. The plans, which were prepared by Joseph M. Huston, Arch., Witherspoon Bldg., call for a 9-story reinforced-concrete building with basement, sub-basement and with a subway entrance. The building will measure 26 x 160 ft., and will run to the back street It will cost $150,000. The property was purchased by Lit Bros. from the Real Estate Holding Co., a subsidiary company of the Philadelphia Rapid Transit Co. Lit Bros. also own the Kirshbaum Building adjoining, occupying 726-28 Market St.

JACOB MEYERS & SONS have obtained a permit for alterations to Girard College. Some of the work, which will be commenced immediately, will be the tearing down of inside brick walls and substituting steel girders with columns. The cost of the operation will be $47,500.

PHILADELPHIA, PA.—Local press reports state that the erection of a new Home for the Indigent is to be started this winter and pushed to completion as rapidly as possible. Joseph S. Neff, Dir. Dept. of Public Works, has announced that since Councils had definitely decided on a site at Holmesburg, which is satisfactory to the Department of Health and Charities and the Mayor, plans for the building would be prepared at once and ground broken for the structure possibly by March 1 next. The cost of the new institution will be defrayed out of loan money amounting to about $675,000, which was borrowed for the purpose in the summer of 1904. Originally this almshouse item in the $16,000,000 permanent improvement loan of 1904, was $750,000. Out of this was expended about $80,000 in 1905 on the construction of an administration building at Torresdale, which was to have been the central structure of a new almshouse to be built on a narrow strip of land between the State road and the New York Division of the Pennsylvania Railroad, opposite the Torresdale filtration plant. Afterward abandoned as unsuitable for such an institution, the site was turned over the Water Bureau, together with the building thereon, which will be used for offices for the filtration plant. The new site at Holmesburg, embracing nearly 50 acres, adjoins the House of Correction. Entirely new plans will be drafted for the buildings, which Dr. Neff said would include a large wheel-shaped structure with accommodations for more than 2,000 persons and cottages for feeble, sick and blind inmates. The Director plans also to have cottages for children with playgrounds, as well as a small school house and play rooms. A chapel and an amusement hall will be built.

The Haney White Co. has been granted a permit for the erection of a 3-story warehouse at the southwest corner of Broad and Somerset St. The building will measure 100 x 217 ft., and will cost $75,000. It will be used as a warehouse, show rooms, offices and for light manufacturing purposes. The plot upon which it will be erected is the site of the old Hotel Somerset.

Work will be started at once upon the erection of an 8-story reinforced-concrete manufacturing building on the block bounded by Cherry, Juniper, Quarry and Clarion Sts., for George F. Lasher, 147 North Tenth St. It was designed by Charles Balderson, 411 Walnut St., and will be built by HARRISON C. REA, at a cost of $195,000.

Harold C. Irvin, 625 Walnut St., has bought from Hibberd B. Worrell a tract at Chelten Ave. and Sullivan St., Germantown, for $45,000. The land will be cut up immediately into 103 building lots, on which an equal number of dwelling houses will be built at a cost of $200,000.

WASHINGTON, D. C.—The Commissioners of the District of Columbia, Washington, have rejected all bids recently received for the construction of the Monroe School building, and will readvertise for bids, opening in January, 1910.

WHEELING, W. VA.—Bids are asked by Capt. F. W. Altstaetter, Corps of Engrs., until 11 a. m., Dec. 16, for building six 2-story 8-room lock-keepers' houses, two each at Dams Nos. 8, 18 and 26, Ohio River.

GASTONIA, N. C.—We are officially advised that bids were received by the Board of County Commissioners on Nov. 16, for the erection and completion of a court-house and jail according to plans and specifications prepared by Milburn, Heister & Co., Home Life Bldg., Washington. There will be two buildings, three stories high, to cost, complete, $70,000. The structures will be fireproof, and of brick and steel construction. Following are the bids: J. A. Jones, Charlotte, N. C., $59,015; Harwood & Moss, Newport News, Va., $53,008; J. D. Anders, Norfolk, Va., $54,297; J. A. Gardner, Charlotte, N. C., $57,000; John F. Grandy & Son, Charlotte, N. C., $53,225; J. J. Keller & Co., Rock Hill, S. C., $53,259; D. J. Phipps, Newport News, Va., $54,875; Blue Ridge Construction Co., Asheville, N. C., $59,000; Grant Wilkins, Atlanta, Ga., $59,500; John Carter Co., Philadelphia, Pa., $51,747; Central Carolina Construction Co., Greensboro, N. C., $58,285; Nicholas Ittner, Atlanta, Ga., $58,866; GEORGE W. WARING, Columbia, S. C., $51,747 (awarded contract).

ATLANTA, GA.—We are officially advised that the Grant Construction Co. has had preliminary drawings prepared for a bank and office building, and probably will be ready for bids in about 60 days. The building will be of fireproof construction, 75 x 90 ft., 17 stories above the sidewalk and two stories below. Architects' estimate of cost, $500,000. Morgan & Dillon, Prudential Bldg., Atlanta, are Archs. Noted on Sept. 30 and Oct. 21. Contracts will be let about Feb. 1.

MEMPHIS, TENN.—There will be an 18-story building on the present site of the Memphis Cotton Exchange, it is stated. The present building, which is occupied by the Merchants' Exchange and the Cotton Exchange, will be torn down, beginning not later than Dec. 15, and both the exchanges have found it necessary to arrange for temporary quarters while the new building is in process of construction. Both have already made their arrangements. The contract for the erection of the new building will call for the completion of the later by Sept. 1, 1910. The cost will be in the neighborhood of $1,250,000, counting the value of the site. It will be owned jointly by the two exchanges and will be their perament home.

MEMPHIS, TENN.—See Jeffersonville, Ind.

CANTON, OHIO.—The Board of Education has started plans for the enlargement of the Central High School building to relieve congestion. The cost will exceed $60,000.

JEFFERSONVILLE, IND.—HEINZMANN BROS., 42d St., Indianapolis, have secured a contract for the construction of a school building in Jeffersonville, Ind., at $75,000; also for the construction of a new educational building in Memphis, Tenn., at $250,000.

INDIANAPOLIS, IND.—LYNN B. MILLIKAN, State Life Bldg., Indianapolis, has secured the contract for the construction of the Maxwell-Brisco business building on Illinois and Vermont Sts. The building will be three stories high, and two additional stories will be added subsequently. Cost, $55,000.

ROCK ISLAND, ILL.—Bids were received as follows on Nov. 18 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of an extension to the Rock Island post-office: Paul Riesen's Sons, Milwaukee, Wis., $79,000; General Construction Co., Hathaway Bldg., Milwaukee, Wis., $77,840; John Volk & Co., Rock Island, Ill., $83,205.

CHICAGO, ILL.—Plans are under consideration by a syndicate of Chicago and New York capitalists by which Chicago is to have a Lake Shore Drive hotel combined with adjoining gardens, casinos and other lake front resorts. The syndicate is stated to have taken an option from the J. V. Farwell Estate on 300,000 sq. ft. of ground space, fronting on the Lake Shore Drive, between Chicago Ave. and Superior St. Plans for a hotel structure of 1,000 rooms, it was said, are now being prepared. The entire improvement has been outlined to represent an investment of approximately $6,000,0000, the hotel to cost $2,000,000. The syndicate is said to be represented in Chicago by Henry B. Mason, who made announcement of the scheme.

MILWAUKEE, WIS.—The general contract for the erection of a $90,000 warehouse for the International Harvester Co. at Park St. and 15th Ave., has been awarded to the DAHLMAN CONSTRUCTION CO., Majestic Bldg., Milwaukee.

The Committee on Police of the Common Council has recommended that the Board of Public Works advertise at once for competitive plans for the proposed Central Police Station and Criminal Courts building to be erected at Broadway and Oneida Sts., at a cost of $250,000. Prizes will be offered as follows: First, contract for architectural work; second, $1,000; third, $750; fourth, $500. John T. Janssen is Ch. of Police.

SPARTA, WIS.—Chandler & Park, 400 Main St., Racine, Wis., have submitted plans for additions to the Monroe County Asylum and Almshouse, to cost $45,000. Two new wings, extension to kitchen, laundry and heating plant will be erected.

SUPERIOR, WIS.—The Minneapolis, St. Paul & Sault Ste. Marie Ry. Co. has awarded the contract for dockage on Connor's Point to WHITNEY BROS., of Superior; contract for a warehouse, 250 x 50 ft., to McLEOD & SMITH, of Duluth, Minn.

KENOSHA, WIS.—The Common Council Special Committee on City Hall has recommended that the plans of Joseph Lindl, Arch., of Kenosha, for a city-hall to cost $45,000, be accepted. The plans call for a 3-story building, 70 x 90 ft., of brick and stone construction. M. J. Scholey is Mayor.

BEATRICE, NEB.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Dec. 29, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring and tower clock) of an extension, remodeling, etc., to the U. S. post-office at Beatrice.

HELENA, MONT.—We are officially advised that bids were received by the State Board of Examiners, Capitol, on Nov. 10, for furnishing all labor, materials and equipment necessary to complete additions to and alterations in the State Capitol building at Helena. The contract has been let to GAGNON & CO., of Billings, Mont., at $395,407. G. B. Conway is State Accountant.

ST. LOUIS, MO.—Excavations for the proposed 3-story bank building of the North St. Louis Savings Trust Co., at Grand Ave. and Hebert St., has been started. The building will be owned by the Bank Realty Co., a holding corporation. The lower floor and part of the basement will be occupied by the trust company. Fire, burglar and tornado proof vaults are being installed. Stores are on the first floor. The second floor is arranged in modern fitted suites of rooms, especially designed for physicians and dentists. The third floor will have a hall for lodge and entertainment purposes, furnished with kitchen, banquet halls and resting and reading rooms. The exterior of the building will be light gray brick with terra cotta trimmings and all copper spouting and cornices. The Directors of the Bank Realty Co. are: John A. Leschen, Alfred W. Pauley, J. Charles Mueller, D. A. Thomson, G. Philip Hofmann, F. W. Linn and A. C. Greulich. Cost, $45,000.

DENISON, TEX.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Dec. 29, for the plumbing and marble finish, etc., of toilet rooms for the U. S. post-office at Denison, Tex.

*DENISON, TEX.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Dec. 29, for the heating apparatus for the U. S. post-office at Denison.

VALLEJO, CAL.—Bids are asked by R. C. Holllyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Dec. 24, for tile work at the Naval Hospital, Mare Island, Cal. Specifications are on file at the office of Engineering News, New York.

SAN FRANCISCO, CAL.—Bids are asked until 3 p. m., Dec. 22, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the alterations, including plumbing and drainage, in the U. S. Appraisers' Stores, to accommodate a power plant to be installed in the U. S. custom-house and the U. S. Appraisers' Stores at San Francisco.

A 5-story building will be erected in the south line of Turk St., between Jones and Leavenworth Sts., for the John Brickell Co. The structure will contain 128 rooms arranged in apartments of two and three rooms each. The construction will be of brick. It will probably amount to $40,000 or more. The plans have been prepared by J. R. Miller, Arch., Lick Bldg.

OAKLAND, CAL.—The Directors of the Bankers' Hotel Co. on Nov. 10 adopted plans and specifications for a building which will cost about $1,500,000. With the adoption of the plans immediate construction will begin. The plans that have been accepted were drawn up by the firm of Bliss & Faville, Archs., 15 Second St., San Francisco. The building will be seven stories in height, and will contain more than 400 rooms. It will occupy the entire block bounded by Alice, Harrison, 13th and 14th Sts. A court and automobile driveway are included in the plans, and a garden will front the building on the 13th St. side. The hotel will also contain a ball room and a banquet hall.

LOS ANGELES, CAL.—Dr. G. P. Gehring, Mgr. of the Radium Sulphur Springs Co., Melrose Ave., Los Angeles, announces an architect has been chosen to prepare plans for a 3-story and basement concrete hotel which is to be erected by the county. The building will contain 77 sleeping rooms. Estimated cost, $100,000. The company was recently incorporated for $300,000 by G. E. Mills, A. Harrison, G. E. Shapler and Dr. Gehring. Office, I. W. Hellman Bldg., Los Angeles.

MORRIS HURWITZ, Bryson Bldg., Los Angeles, Cal., has been awarded the contract to erect a 6-story and basement brick apartment house, 62 x 85 ft., at 17th St. and Grand Ave. Cost, $71,000. Time limit, 125 working days.

The LOS ANGELES PLANING MILL CO., 1812 Industrial St., Los Angeles, Cal., has been awarded by Hudson & Munsell, Stimson Bldg., the contract for erecting a 2-story and basement 13-room Italian villa residence on West Adams St. for Secondo Guasti. Time, Aug. 10, 1910. Cost, $46,013.

SANTA CRUZ, CAL.—Frederick Swanton, of Santa Cruz, Cal., has had plans drawn for a 3-story hotel building to be erected soon in Cottage City, near Santa Cruz. It is to be of reinforced concrete, Mission style architecture and will contain 300 rooms. The structure will be built around a central patio. The cost is estimated at $300,000.

POMONA, CAL.—Funds are being raised by the Congregational Church of Pomona, Cal., for a church building to cost $60,000.

HOLLYWOOD, CAL.—The First Presbyterian Church at Hollywood, Cal., contemplates erecting an $80,000 church building, 140 x 175 ft., on its property on Gower St.

SANTA BARBARA, CAL.—The site for the proposed post-office building to be erected at Santa Barbara, Cal., has been cleared. Plans are being completed at Washington, D. C., for the building. An appropriation of $100,000 has been made. James Knox Taylor is Superv. Arch., Treasury Dept., Washington, D. C.

ALHAMBRA, CAL.—A special school election was held at Alhambra, Cal., on Nov. 15, when $50,000 was voted for school grounds and sites.

BRAWLEY, CAL.—The Brawley Town and Improvement Co., Brawley, Cal., with a capital stock of $200,000, will developed a town to be named Weston. A hotel will be erected and a water system installed.

BAKERSFIELD, CAL.—The Board of Supervisors of Kern County, Cal., desire plans and specifications for a fireproof court-house for Kern County, Cal. The plans, elevations and sections must be drawn to a scale of eight ft. to one in. and executed in black and white only. The building site is 264 x 608 ft. A perspective may be submitted. I. L. Miller, is Clerk, Bakersfield, Cal.

Charles J. Lindgren, of Bakersfield, Cal., will erect a 3-story brick building, 50 x 115 ft., on 20th St., the structure to be used as annex to the Hotel Southern. The ground floor is to contain offices, parlor, dining and grill rooms; the two upper floors, 36 rooms and 16 bath rooms. The apartments will be provided with every hotel convenience. The estimated cost of the building is $50,000.

WATER-SUPPLY—IRRIGATION.

HINGHAM, MASS.—The Chief of the Bureau of Yards and Docks, Navy Dept., Washington, D. C., has recommended that contract for fresh water system at the naval magazine, Hingham, be awarded to the McCay Engineering Co., 9 East Lexington St., Baltimore, Md., at $7,137.

*NEW YORK, N. Y.—Bids will be received by the Board of Water Supply, J. Waldo Smith, Ch. Engr., until 11 a. m., Dec. 8, for Contract 30 for construction of Hill View reservoir and appurtenances, and portions of the Yonkers and Van Cortlandt siphons of Catskill aqueduct.

Bids were opened on Nov. 10 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and laying high pressure fire service mains and appurtenances in 15th and 16th, 21st, 22d, 23d and 24th Sts., Lexington and Madison Aves. and other streets in Manhattan Borough. The only bid received was that of Rodgers & Hagerty, 41 Park Row, at $132,467, including all pipe, valves, hydrants, etc.

Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., Dec. 3, for furnishing, delivering and laying a trunk distribution main and appurtenances in Glenmore, Pennsylvania and Bushwick Aves. and in Madison St., Boro. Brooklyn; for furnishing, delivering and laying a trunk distributing main and appurtenances in Albany, Clarkson, Woodruff, Ocean, Caton, Coney Island, Church and 14th Aves. and in 50th St., Boro. Brooklyn.

*NEW YORK, N. Y.—The Board of Water Supply has awarded contract for making test borings expected to require casing deeper than 200 ft. or to attain a total depth greater than 500 ft., aggregating about 10,000 lin. ft., in the boroughs of Manhattan and Brooklyn, to SPRAGUE & HENWOOD, Scranton, Pa., at $46,650. Bids were opened on Nov. 17.

Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., Dec. 8 for furnishing, delivering and laying water mains in Greenpoint and Thomson Aves., Hoffman Boulevard and Union Turnpike, First and Second Wards, Boro. Queens; for furnishing and driving or sinking wells at Whitestone in the Third Ward, Boro. Queens; also for furnishing, delivering and laying water mains in various streets in the Boroughs of Manhattan and The Bronx.

*NEWBURGH, N. Y.—Bids will be received by the Board of Water Commissioners until 7.30 p. m., Dec. 6, for building a new gatehouse and boiler house. Curtis Stanton is Supt. W.-Wks.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Dec. 8, by Bird S. Coler, Boro. Pres., for furnishing all labor and materials for constructing pump well, screen and grit chambers and appurtenances at the Coney Island disposal works at Neptune Ave. and West Twelfth St.

PEERMONT, N. J.—See item under Streets and Roads.

HALEDON (Paterson post-office), N. J.—Bids have been opened for constructing a slow sand filter plant, a filtered water reservoir and laying water mains from the plans of William B. Fuller, 150 Nassau St., New York. Contract has been awarded to the HUDSON TERMINAL CONSTRUCTION CO., New York, at $5,133.

NEWARK, DEL.—We are officially advised that but one bid was received and rejected on Nov. 22 by the Light and Water Com. for 1,800 ft. of 4-in. c.-i. pipe. Bids will be readvertised late in the winter or early in spring of 1910. L. B. Jacobs is Chn.

*WASHINGTON, D. C.—Bids were received as follows on Nov. 22 by the Commissioners of the District of Columbia, for 1,000 (more or less) water meters. The Commissioners reserve the right to increase this order by 100% and stipulate for delivery 500 per month until completed: Standard Water Meter Co., Brooklyn, on "Current" brand, $10; Neptune Water Meter Co., 90 West St., New York, on "Trident disk," $8; Buffalo Meter Co., Buffalo, on "American," $8; Pittsburg Water Meter Co., 149 Broadway, New York, on "Keystone," $8; Henry R. Worthington, 115 Broadway, New York, on "Worthington Model 'D,'" $6.50; Thomson Meter Co., Brooklyn, on "Lambert," at $8; Hersey Mfg. Co., South Boston, Mass., on "Hersey Model 'F-F,'" $8.

HIGHLAND PARK (Richmond post-office), VA.—C. P. E. Burgwyn, of Richmond, is preparing plans for construction of waterworks and electric light plant.

WILMINGTON, N. C.—In addition to the contracts already awarded for the reconstruction of the Wilmington water-works, other contracts will be advertised some time this month. This work will consist of an addition to the filter plant of 2,500,000 gallons, the building of a reinforced-concrete sedimentation basin, approximately 64 ft. sq., a small reinforced-concrete storage reservoir of 1,000,000 gallons capacity, rearrangement of machinery and piping, removal of present building and the building of a new power and filter station, approximately 168 ft. x 65 ft., and the building of a 110-ft. radial brick stack. Mills and Greenleaf, New York, are architects. Hazlehurst & Anderson, Atlanta, Ga., and Wilmington, N. C., are Consulting Engrs.

MOREHEAD CITY, N. C.—The city is contemplating an installation of a water-works system and bonds for this purpose have been voted. Hazlehurst & Anderson, Wilmington, N. C., and Atlanta, Ga., are Consulting Engrs.

CRYSTAL SPRINGS, MISS.—The city will issue $7,000 of bonds for constructing a tower and tank in connection with the water and light plant.

WASHINGTON, LA.—The city has awarded contract to A. C. JONES, Opelousas, La., for extension of water system requiring 5,000 ft. of 6-in. and 8,200 ft. of 4-in. c.-i. main, with hydrants and fittings.

COLUMBUS, OHIO.—Bids will be received until Nov. 29 by the Board of Public Service, E. W. Hirsch, Secy., for about 200 tons of c.-i. pipe, size 6, 8 and 12-in., and five tons of special castings for use in the Waterworks Department.

EAST LIVERPOOL, OHIO.—Bids will be received by the Board of Public Service, A. S. Hughes, Clk., until noon, Dec. 1, for furnishing material and constructing a system of mechanical filters, reinforced concrete subsiding basin, laying c.-i. water pipe and constructing filter house. John W. Hill & Son, 506 First National Bank Bldg., Cincinnati, are Engrs.

*CINCINNATI, OHIO.—We are officially advised that bids were received by Lieut.-Col. J. G. Warren, Corps Engrs., U. S. A., on Nov. 15 for furnishing and installing a water system at Dam No. 37, Ohio River, as follows: G. & W. Mfg. Co., 26 Cortlandt St., New York, $8,830; Horace E. Horton, 10206 Longwood Ave., Chicago, Ill., $2,631.

MARQUETTE, MICH.—The Water Board has decided to select the Duluth Engineering Co., of Duluth, Minn., to prepare an estimate of cost of the proposed extension of the intake, 3,000 ft. out into the lake.

DETROIT, MICH.—Bids were received as follows on Nov. 12 by the Water Board for three pumping engines: William Tod Co., Youngstown, Ohio, $399,400; Allis-Chalmers Co., Milwaukee, Wis., style A, $355,000; style B, $346,000; Hoovey Owens, Rentschler Co., Hamilton, Ohio, $349,500; the Holly Mfg. Co., Buffalo, N. Y., $421,000; Bethlehem Steel Co., South Bethlehem, Pa., $336,000.

BAY CITY, MICH.—The Park Commission on Nov. 9 awarded the BAY CITY PLUMBING CO. contract for the water-works and sewers in the new park.

MILWAUKEE, WIS.—Bids will be received until Nov. 26 by the Board Public Works, Charles J. Poetsch, Chn., for furnishing material and constructing for the Water Department a concrete-lined tunnel under and across the Milwaukee River at East Water St., and for laying a 36-in. water main in said tunnel.

The Board of Public Works has awarded contract for furnishing and installing one 12,000,000-gallon (daily) high service pumping engine in North Point station to the ALLIS-CHALMERS CO., of Milwaukee, at $64,300. Other bids were: William Tod Co., Youngstown, Ohio, $78,000; Wisconsin Engine Co., Corliss, Wis., $83,000; Bethlehem Steel Co., Philadelphia, Pa., $90,500.

MINNEAPOLIS, MINN.—Prof. Bass, of the Engineering Department of the University of Minnesota, has been selected to make a survey of the proposed pipe line from Mille Lacs to Minneapolis, in order that Rudolph Hering, 170 Broadway, New York, Consulting Engr., may have data on which to base an estimate of cost of bringing water to Minneapolis from the lake.

KANSAS CITY, KAN.—Bids are asked until 2 p. m., Dec. 13, by the Board of Water-Works Trustees for the construction, delivery and erection of a horizontal, cross-compound, crank and flywheel condensing pumping engine complete, at pumping station at Quindaro. Specifications are on file at office of Engineering News, 220 Broadway, New York.

The Board of Water Commissioners on Nov. 13 awarded the DIMMICK PIPE CO., Birmingham, Ala., contract for 1,300 tons of 30-in. water pipe at $36,000. The tubing will be used as a feed main from the Quindaro station to a distributing station to be erected of Minnesota Ave. and the city limits.

KIMBALL, NEB.—We are officially advised that an irrigation district was organized on Nov. 6 with I. S. Walker, John Ewbank and F. F. Lemon as directors. The purpose of the organization is to build storage reservoirs, dams, ditches, etc., to irrigate 8,000 acres of land surrounding Kimball. Six per cent. bonds will be issued in a short time to cover the construction.

RAPID CITY, S. DAK.—Contract for a gravity water system at the Rapid City Indian school has been awarded to the KATZ-CRAIG CONSTRUCTION CO., of Omaha, Neb., at $18,355.

LONOKE, ARK.—The Lonoke Rice Milling Co. has awarded contract to W. S. KING, Lonoke, for the erection of tower and tank, fire protection and steam heating.

RUSSELLVILLE, ARK.—PETER HUGGLER & SONS, of Russellville, have been awarded contract for constructing a concrete reservoir, 80 x 87 ft. and 12 ft. deep, on top of mountain near here.

WELLINGTON, TEX.—The Wellington Water, Light & Ice Co. proposes to construct water-works at a cost of about $5,000. Contract for construction will be let about Jan. 1. W. N. Benson is Secy.

DALLAS, TEX.—Bids are asked by J. B. Winslett, City Secy., until Dec. 8, for furnishing 5,000 tons of piping and specials for constructing main line from White Rock reservoir and branch lines necessary to distribute water from new reservoir. Estimated cost, about $140,000.

ANTLERS, OKLA.—Bids are asked by the city until Nov. 29, for purchase of machinery and material required for construction of water-works, including return tubular boilers, pumps, feed-water heater, boiler-feed pumps, piping, etc.; O'Neil Engineering Co., Wilson Bldg., Dallas, Tex., are Engrs.

DUSTIN, OKLA.—The city will construct a water-works system for which plans have not been made. F. P. Hicks is Town Clk.

OKEENE, OKLA.—Bids are asked until 6 p. m., Dec. 6, by O. G. Graalman, Town Clk., for labor and material for constructing water-works, to include 19,944 lin. ft. of 4-in. to 8-in. c.-i. pipe; 65,000-gallon tank on 100-ft. steel towers, open well 18 ft. in diameter, 40 ft. deep, 5,000 gallons per hour; water softening plant, pumping equipment, etc. Archer, Rollins & Co. are Engrs., 534 Beals Bldg., Kansas City, Mo.

STILWELL, OKLA.—Bids are asked by the city until Nov. 30 for purchase of machinery and material for construction of water system, including return tubular boilers, duplex pump, feed-water heater, boiler-feed pump, etc. O'Neil Engineering Co., Wilson Bldg., Dallas, Tex., are Engrs.

GREELEY, COLO.—The Directors of the Greeley-Poudre Irigation District on Nov. 15 awarded contract for the building of the 2-mile Laramie River tunnel through the Medicine Bow range to J. A. McILWEE, of Cripple Creek, Colo., at about $800,000.

PORTLAND, ORE.—We are officially advised that bids were received as follows on Nov. 9 by the Water Board for steel pipe for connecting mains, Reservoirs 5 and 6: East Jersey Pipe Co., 90 West St., New York, $44,078; Riter-Conley Mfg. Co., Pittsburg, Pa., $41,731; Schaw-Batcher Co. Pipe Works, Sacramento, Cal., $45,440; Petroleum Iron Works Co., Pittsburg, $45,944; Joseph McNeil & Bro. Co., Pittsburg, $48,147; Marine Iron Works, St. John, Ore., $48,939. D. D. Clarke is Engr. Bd.

BRAWLEY, CAL.—See item under Buildings.

SACRAMENTO, CAL.—Prof. C. H. Hyde, of California University, has completed his report, it is stated, on the establishment of a filtration plant for this city, and estimates the cost at $600,000. Geo. N. Randle is City Engr.

COLUSA, CAL.—All bids received by the Town Trustees for constructing water-works have been rejected as excessive. Plans will be revised and new bids asked. Estimated cost, $50,000. A. B. Jackson is Town Clk. J. W Kaerth is City Engr.

TORONTO, ONT.—Contract for electric motors for electric pumps to be installed at the main pumping station and high-level pumping station has been awarded by the Board of Control at $107,765, to the CANADIAN WESTINGHOUSE CO., of Hamilton, Ont.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

*EAST PROVIDENCE, R. I.—We are officially advised that bids were received on Nov. 16 and rejected by Board of Sewer Commissioners, Watchemoket Fire Dist., for constructing various sewers. The bids were: Antonio G. Tomasello, Dorchester, Mass., $57,939; Antony Cefalo, Boston, $71,253; David Peoples, Betz Bldg., Philadelphia, Pa., $76,774; Pettaconsett Construction Co., Providence, $81,206; Frank A. Gammino, 331 Broadway, Providence, $84,903; Edmund P. Sanger and others, Mt. Kisco, N. Y., $95,662; Joseph B. O'Rourke Co., Boston, $116,573. Engineer's estimate, $76,996. New bids are asked until Dec. 2. City Wastes Disposal Co., 156 Fifth Ave., New York, are Engrs.

BROOKLYN, N. Y.—Bids are asked by Bird S. Coler, Boro. Pres., until 11 a. m., Dec. 1, for furnishing all the labor and material required for constructing sewer in 74th St., between 12th and 13th Aves.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Dec. 8, by Bird S. Coler, Boro. Pres., for constructing and reconstructing sewers in various streets.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Dec. 6, by John F. Ahearn, Pres. Boro. Mnahattan, for the construction of sewers and appurtenances and receiving basins and appurtenances in various streets.

TRENTON, N. J.—Bids will be received until 8 p. m., Dec. 7, by the Common Council for constructing sewers in Hoffman St. and West End Ave. Harry B. Salter is City Clk.

Plans have been approved by the State Board of Health for the construction of a sewer extension in Division St.

RAHWAY, N. J.—The State Board of Health has approved plans for the construction of a sewer system here.

MAYWOOD, N. J.—The Common Council has selected Fred Page to prepare plans for the construction of a sewer system and sewage disposal plant. Estimated cost, $25,000.

PEERMONT, N. J.—See item under Streets and Roads.

PERKASIE, PA.—The County Commissioners, Doylestown, have granted permission to Philip S. Crossman, of Perkasie, to lay sewer pipe under the wing walls of the Sellersville stone arch bridge. The projector intends to connect Perkasie with Sellersville, a mile away, and have a sewage filter plant between.

*WASHINGTON, D. C.—Bids will be received by the District Commissioners until noon, Dec. 6, for constructing sewers in the District. Specifications and forms of proposals and all necessary information may be obtained from Chief Clerk, Engineer Dept., Room 427, District Bldg., Washington.

HIGHLAND PARK (Richmond post-office), VA.—C. P. E. Burgwyn, of Richmond, is preparing plans for the construction of the sewer system.

CHARLOTTE, N. C.—The Board of Aldermen has ordered construction of sewers in North Brevard, East Fourth and North Tryon Sts. Joseph Firth is City Engr.

PRATT CITY, ALA.—The city has awarded contract to the E. W. JORDAN CONSTRUCTION CO., Birmingham, Ala., for constructing sanitary sewers. Wheelock Engineering Co., 711 Farley Bldg., Birmingham, Engrs. Bids were opened on Nov. 8.

JACKSON, MISS.—The City Council has authorized a bond issue of $55,000 for sewerage, addition to high school building and improvements to City Hall. A. C. Crowder is Mayor.

COLUMBIA, TENN.—The city has engaged Walter G. Kirkpatrick, Engr., Jackson, Miss., to make a survey and estimate the cost of constructing a sewer system.

*CHATTANOOGA, TENN.—We are officially advised that bids were received as follows on Nov. 2 by the Board of Public Works for the construction of the Chattanooga Creek system of intercepting sewers: (A) brick, two rings, for the 36-in. high level sewer from pumping station to river, combined with double-strength vitrified clay pipe for the 20-in. and 24-in. sewers leading to pumping station; (B) Jackson, Mich., reinforced-concrete pipe for 36-in. and 24-in. sewers and double-strength vitrified clay pipe for 20-in. sewer; (C) "Meriwether" reinforced-concrete pipe for 36-in. and 24-in. sewers and double-strength vitrified clay pipe for 20-in. sewer; (D) Jackson, Mich., reinforced-concrete pipe for 36-in. sewer and double-strength vitrified clay pipe for 24-in. and 20-in. sewers; (E) "Meriwether" reinforced-concrete pipe for 36-in. sewer and double-strength vitrified clay pipe for the 24-in. and 20-in. sewers: NOLL CONSTRUCTION CO., Chattanooga, (A) $53,022, (B) $49,223, (C) $49,423, (D) $48,453, (awarded contract), (E) $48,653; F. G. Mortimer, (B) $53,959, (C) $56,134, (D) $53,084, (E) $55,084; Jos. Trimby, (A) $59,499, (B) $57,391, (C) $56,866, (D) $56,603, (E) $56,341; H. S. Bosler, (A) $54,721, (B) $57,866, (C) $57,866, (D) $57,428, (E) $57,428; L. C. Smallwood, (A) $66,404, (D) $62,491; Guild & Co. and Daniels, (A) $65,150, (B) $65,609, (C) $64,944, (D) $64,716, (E) $64,384.

The bids for reinforced-concrete pipe all lines, Jackson and Meriwether, were: Noll Construction Co., $49,971 and $50,171; F. G. Mortimer, $54,469 and $56,644; H. S. Bosler, $58,036 and $58,036; Guild & Co. and Daniels, $66,255 and $65,923. Robert Hooks is City Engr.

SEBRING, OHIO.—Bids will be received until Dec. 15 by Harry Jenkins, Village Clk., for $25,000 bonds for constructing a sanitary sewerage system and disposal plant.

SOUTH BEND, IND.—Bids will be received until Nov. 20 by the Department of Public Works, W. A. McInerney, Chn., for constructing a pipe sewer in Eddy St.

COLUMBUS, IND.—William H. Rights, City Engr., is preparing plans on which bids will be asked for the construction of a modern sewer system.

FORT WAYNE, IND.—The Board of Public Works will receive bids for the construction of a large sewer in Potomac and Thomas Sts.

ALTON, ILL.—Bids for the construction of the East Side trunk sewer will not be called for until about February. Estimated cost, $95,000. T. M. Long is City Engr.

CICERO, ILL.—Bids will be received by the Board of Local Improvements of the town, Charles Stoffel, Secy., Cicero, until Nov. 29, for constructing sewers in 22d, 48th and Wolf Aves.

STORM LAKE, IOWA.—Bids will be received until Dec. 7 for the construction of about 8½ miles of 8 to 15-in. sanitary sewers and disposal plant. Charles P. Chase, of the Iowa Engineering Co., of Clinton, Iowa, is Engr.

HAWARDEN, IOWA.—K. C. Gaynor, of Sioux City, is preparing plans for a sewer system, with a septic tank. Estimated cost, about $20,000.

*WICHITA, KAN.—Bids will be received at the office of William Sence, City Clk., until 9 a. m., Dec. 6, for the construction of the main line sanitary sewer No. 12, known as the College Hill sanitary sewer. Approximate quantities are: 5,300 lin. ft. 45-in., 11,837 lin. ft. 42-in., 2,793 lin. ft. 39-in., 3,963 lin. ft. 36-in. double-ring brick or reinforced-concrete block or tile sewer; 3,870 lin. ft. 30-in. single-ring brick or reinforced-concrete block or tile sewer; 1,356 lin. ft. 24-in. vitrified tile, or reinforced-concrete block or tile sewer; one outlet protection; one special creek crossing; 87 manholes. Bert C. Wells is City Engr.

DAVID CITY, NEB.—Bids will be received until 8 p. m., Nov. 26, by T. B. Myers, City Clk., for furnishing material and constructing sewers in District No. 8.

NEBRASKA CITY, NEB.—Bids are asked by the Board of Public Works until Dec. 1 for a sanitary sewer system. Estimated cost, $11,000.

BROWNSVILLE, TEX.—Contract will be let in about 30 days for the construction of the proposed sewer system. Estimated cost, $30,000. William Kelly is Chn. Sewerage Co.

OKLAHOMA CITY, OKLA.—Bids are asked by the city until Nov. 29 for construction of a main storm sewer in the alley between McKinley and Ellison Aves., and lateral sewers in Wheeler's Addition, Pleasant View Addition, etc. Bob Parman is City Clk.

COLLINS, OKLA.—The city has voted to issue $37,500 of bonds for sewer construction and water-works.

DENVER, COLO.—Bids will not be received on Nov. 26 by the Board of Public Works, W. B. Lowry, Pres., for the proposed West and South Side sanitary sewer. The matter has been postponed until specifications are revised, as the kind of material to be used in the construction had not been specified. Estimated cost, $750,000.

NEWMAN, CAL.—The town has voted bonds for $32,500 for the construction of a sewer and septic tank system. Chas. E. Sloan, Consulting Engr., has been engaged to prepare plans and specifications.

BAKERSFIELD, CAL.—The City Engineer has prepared plans and specifications for a sewage tank of 1,640,000 gallons capacity, 200 ft. diameter and 8.33 ft. deep, four compartments, excavation of 5,616 cu. ft. Estimated cost, $10,000.

LAS VEGAS, NEV.—A bond issue for $30,000 has been made at Las Vegas, for a sewer system.

CARSON CITY, NEV.—Bids will be received by the City Council until 7 p. m., Dec. 13, for the construction of a sewer in Plaza and Rice Sts. E. O. Patterson is City Clk.

PROVO, UTAH.—Contract for construction of sewer district No. 11 has been awarded to the JAMES KENNEDY CONSTRUCTION CO., of Salt Lake City, at $56,349. Bids were opened on Nov. 1.

SALT LAKE CITY, UTAH.—We are officially advised that JAMES KENNEDY CONSTRUCTION CO., Salt Lake City, has been awarded contract for sewer extension No. 228, at $17,503. Bids were opened on Nov. 5. George O. Chaney is City Engr.

STREETS AND ROADS.

(* *denotes that this work is advertised in Engineering News.*)

HARTFORD, CONN.—Plans for state road work have been received at the office of the State Highway Commissioner as follows: From R. E. Mitchell, Engr., 8,500 lin. ft. on the Eastford Road in the town of Woodstock; 1,650 lin. ft. in Mansfield. From A. B. Alderson, 12,992 lin. ft. on the Hartford-Winsted road in the towns of New Hartford and Barkhamsted.

A supplemental contract for 4,250 lin. ft. of gravel road in the town of Wolcott, including four 24-in., one 15-in. and two 20-in. tile culverts has been awarded to AHERN BROS., Norwich, Conn., for $1.70 per lin. ft.

The contract for the construction of 5,425 lin. ft. macadam-telford road, including one 12-in., one 18-in. and one 24-in. tile culverts, in the town of Orange has been awarded to F. ARRIGONI & Bro. for $2.90 per lin. ft. for macadam, $3.40 for telford, 75 cts. per lin. ft. for rubble drain and 52 cts. per lin. ft. for railing. Bids were received on this work several weeks ago.

*AUBURN, N. Y.—We are officially advised that bids were received on Nov. 16 by C. A. Koenig, Mayor, for building subways and constructing an asphalt pavement in Hoopes Ave. Contracts were awarded as follows: Pavement, BRAYER BROS., Auburn, $8,899; subway, SAFETY INSULATED WIRE & CABLE CO., 114 Liberty St., New York, $3,381. W. Thomas Wooley is City Engr.

NEW YORK, N. Y.—Bids are asked by Lawrence Gresser, Pres. Boro. of Queens, until 11 a. m., Dec. 6, for regulating, grading, paving, and constructing sidewalks in various streets in the Boro. of Queens.

Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 2 p. m., Dec. 6, for regulating, regrading, curbing and recurbing, flagging and reflagging East 76th St., from Exterior St. to a point 314 ft. westerly therefrom, and construct retaining wall and guard rail.

Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Dec. 1, for regulating and repaving with wood block, asphalt and granite, various streets in Brooklyn.

Bids are asked by the Park Board, Henry Smith, Pres., until 3 p. m., Dec. 2, for excavating earth, rock and other materials, regulating and grading and curbing and paving the roadway and sidewalks of the new street long the westerly boundary of John Jay Park, between 76th and 77th Sts., Boro. of Manhattan, the City of New York; for paving and otherwise improving the sidewalk along the southerly side of the addition to Riverside Park at 122d St., Boro. of Manhattan; for furnishing and delivering 3,000 cu. yds. of mould for parks, Boro. of Manhattan.

NEW YORK, N. Y.—On Nov. 17 the following bids were received by Bird S. Coler for regulating and repaving with asphalt pavement on a concrete foundation the roadway of Lafayette Ave., from Nostrand to Tomkins Aves.: Uvalde Asphalt Paving Co., 1 Broadway, New York, $13,408; Cranford Co., 52 Ninth St., Brooklyn, $13,418; Barber Asphalt Paving Co., 30 Church St., New York, $14,234; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., Brooklyn, $13,537. Lafayette St., from Flatbush Ave. extension to Hudson Ave., Willoughby St., from Gold St. to Fleet Pl. and Duffield St., from Johnson St. to Myrtle Ave., Uvalde Asphalt Paving Co., 1 Broadway, New York, $7,572; Cranford Co., 52 Ninth St., Brooklyn, $6,869; Barber Asphalt Paving Co., 30 Church St., New York, $7,138; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., Brooklyn, $6,419. Sackman St., from Pitkin to Livonia Aves., Uvalde Asphalt Paving Co., 1 Broadway, New York, $16,601; Cranford Co., 52 Ninth St., Brooklyn, $17,699; Barber Asphalt Paving Co., 30 Church St., New York, $17,845. Apple Ave., from Flushing Ave. to Metz St., Pear St., from Apple Ave. to Clinton Ave. and Peach St., from Apple Ave. to Clinton Ave., within Wallabout Market together with all work incidental thereto, H. P. George, 49 Washington Ave., Richmond Hill, L. I., $15,060; Patrick S. Hickey, $15,460; Norton & Gorman, $15,266; O'Grady Bros., $16,159.

*NEW YORK, N. Y.—The following bids were received on Nov. 18 by the Board of Water Supply for Contract No. 59, construction of about 27.5 miles of highways, including clearing, grading, building of culverts, ditches, drains, guard rails and retaining walls, around the Ashoken Reservoir in the town of Oliver, Marbletown, Hurley, Woodstock and Kingston Ulster County, N. Y.: C. P. Bower Contracting Co., Bulletin Bldg., Philadelphia, Pa., $323,861; J. B. Pennell & Co., 3 Palisade Ave., Yonkers, N. Y., $458,100; Jules Breuchard Contracting Co., 290 Broadway, New York, $439,125; Am. Pipe & Construction Co., 112 North Broad St., Philadelphia, $389,820; The C. S. Lamlie Co., Pittsburg, Pa., $336,665; Henry P. Burgard Co., Buffalo, N. Y., $399,710.

NEW YORK, N. Y.—On Nov. 10 Bird S. Coler, Pres. Boro. of Brooklyn, received the following bids for regulating and repaving with asphalt pavement on a concrete foundation on the roadway the following streets and avenues: East Ninth St., from Beverly Road to 18th Avenue—Barber Asphalt Paving Co., 30 Church St., New York, $19,129; Uvalde Asphalt Paving Co., 1 Broadway, New York, $16,444; Cranford Co., 52 Ninth St., Brooklyn, N. Y., $16,390; Brooklyn Alcatraz Paving Co., 407 Hamilton Ave., Brooklyn, $16,948. Montauk Ave., from Pitkin Ave. to New Lots Road—Barber Asphalt Paving Co., 30 Church St., New York, $12,339; Uvalde Asphalt Paving Co., 1 Broadway, New York, $10,963; Cranford Co., 52 Ninth St., Brooklyn, N. Y., $10,618; For regulating and repaving with granite pavement on a concrete foundation the roadway of Myrtle Ave., from Washington St. to Hudson Ave.—H. P. George, $28,315; Atlanta Contracting Co., $29,413; Norton & Gorman, 303 Douglas St., Brooklyn, $26,485; Leo E. Kelly, $33,362; Richard L. Russell, $28,156. For regulating and repaving with asphalt pavement on a concrete foundation the roadway of Howell St., from Meserole to Driggs Aves.—Barber Asphalt Paving Co., 30 Church St., New York, $12,479; Uvalde Asphalt Paving Co., 1 Broadway, New York, $11,537; Cranford Co., 52 Ninth St., Brooklyn, $11,514. Second St., from Fourth to Sixth Aves.—Barber Asphalt Paving Co., 30 Church St., New York, $9,749; Brooklyn Alcatraz Paving Co., 407 Hamilton Ave., Brooklyn, $9,233; Cranford Co., 52 Ninth St., Brooklyn, $9,523; Uvalde Asphalt Paving Co., 1 Broadway, New York, $10,043. Williams Ave., from East New York to Pitkin Aves.—Barber Asphalt Paving Co., 30 Church St., New York, $12,033; Brooklyn Alcatraz Paving Co., 407 Hamilton Ave., Brooklyn, $11,924; Cranford Co., 52 Ninth St., Brooklyn, $11,616; Uvalde Asphalt Paving Co., 1 Broadway, New York, $11,600.

SYRACUSE, N. Y.—Bids are asked until 1.30 p. m., Nov. 29, by the Board of Contract and Supply for furnishing materials and constructing a cement sidewalk, 4 ft. wide, on both sides of Greenway Ave., from Burnet Ave. to Vann St. George J. Metz is City Clk.; Henry C. Allen is City Engr.

TRENTON, N. J.—Bids are asked by the City Council until 8 p. m., Dec. 7, for grading Edgemere Ave. Harry B. Salter is City Clerk; Abram Swan is City Engr.

PEERMONT, N. J.—A contract has been awarded by the Oceanside Realty Co. to the FILBERT PAVING & CONSTRUCTION CO., Pennsylvania Bldg., Philadelphia, Pa., for work done at Oceanside, a new seaside town being founded on Seven-mile Beach. The amount of the contract is about $300,000. The work will include the grading of lots, laying of water mains and sewer pipes, making streets and the construction of curbs and concrete sidewalks. Oceanside is in the center of Seven-mile Beach. The company owns almost two miles of ocean front, betwen Peermont and Stone Harbor, and running back to Grassy Sound and the great channel. The entire ground measures about 1,200 acres. It comprises 33 blocks, from 47th to 80th Sts.

CLINTWOOD, VA.—Bids will be received until Dec. 1, by P. St. J. Wilson, State Highway Comr., at Richmond, Va., for grading, furnishing and placing pipe and culverts on proposed road from Clintwood to the Wise County line.

ROANOKE, VA.—We are officially advised that bids were received by W. L. Craft, City Clk., on Nov. 17, for constructing granolithic sidewalks. F. L. Gibboney is City Engr. The contract has been let to the ROANOKE CONCRETE CO. Cost, $14,500.

HUNTSVILLE, ALA.—It is proposed to expend about $10,000 in paving, about 50,000 sq. yds. Material has not been selected. D. B. Lillard is City Clerk.

KATZENMEYER, MISS.—Bids are asked until noon, Dec. 8, at the office of J. D. Laughlin, Chancery Clerk of Warren County, Vicksburg, Miss., for working the new road at Katzenmeyer.

LAKE PROVIDENCE, LA.—We are officially informed that bids were received by T. J. Powell, Mayor, on Nov. 15, for about two miles of 4-ft. concrete walks. The contract has been let to KNIGHT & SANFORD, of Atlanta, Ga.

NEW ORLEANS, LA.—The following bids have been received for paving Magnolia St. with square graphite blocks: The Grasser Contracting Co., $57,538; Etta Construction Co., $53,568; Richard Brock, $49,930; C. Hyland & Co., $46,482; Thomas Egan, $42,964; Joseph A. Craven & Co., $41,773; Wm. Bancroft, $40,344, and the Standard Paving & Construction Co., $39,422.

BRISTOL, TENN.—We are officially advised that bids were received on Nov. 15 by the County Road Commissioners at Bristol for grading and macadamizing road in Sullivan County. F. G. Phillips is County Engr. The contract for grading and macadamizing 40 miles has been let to SMALLING & GRAY, of Bristol, at $176,150, and for six miles of street work to the STREET COMMITTEE, Bristol, at $23,500.

KNOXVILLE, TENN.—The contract has been awarded to the SOUTH KNOXVILLE MACADAM CO. to do the grading at Chilhowee Park for the ground to be used for the Appalachian Exposition to be held in Knoxville during the months of September and October, 1910.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service until noon, Nov. 29, for furnishing the necessary labor and materials for improvement of Reading Road, from McMillan St. to north line of Rose Hill Ave., by grading, setting granite curbs, resetting old granite curbs where necessary, paving the roadway with wood blocks and constructing the necessary drains and inlets. J. H. Sundmaker is City Engr.

INDIANA.—The Gravel Roads Law of Indiana has been declared unconstitutional and work throughout the state has been suspended.

INDIANAPOLIS, IND.—Board of Public Works will ask for bids soon for paving 34th St. with asphalt. Estimated cost, $15,000.

GARY, IND.—Bids will be received by the Common Council until Nov. 29 for improving Adams St. by grading, constructing cement walks and curbs and paving with brick, asphalt, wood block or bituminous macadam, requiring about 8,995 sq. yds. pavement, 5,000 lin. ft. curb, 2,793 sq. yds. sidewalks, etc.; engineer's estimate, $24,152. Also same time and place for improving 23d Ave. by grading, constructing cement walks and curbs and paving with macadam having a foundation of slag or stone and a wearing surface of stone, requiring about 7,875 sq. yds. pavement, 2,205 sq. yds. cement walk, 4,260 lin. ft. curb, etc.; engineer's estimate, $12,167. Harry G. Moose is City Clk.

MANISTEE, MICH.—Col. E. W. Meuscher, County Engr., has laid out 7¾ miles of roads which will be constructed during the coming season under the county road system with state aid. They will all be gravel roads.

PEORIA, ILL.—This city contemplates constructing about ten miles of brick and asphalt paving next season. Clay Belsley is City Engr.

*MADISON, WIS.—The contract for improving Washington Ave. (bids opened Nov. 10) has been awarded to WILLIAM KEYES, of Madison, for $107,573. O. S. Norsman is City Clerk.

LAWRENCE, KAN.—We are officially advised that on Nov. 15 bids were received by F. D. Brooks, City Clerk, for grading, paving and curbing Mississippi St., with brick outside the street railway track on 4-in. concrete foundation, with grout filler and combined curb and gutter, 3,500 sq. yds. paving, 3,000 ft. of curb and gutter: W. W. GILMORE, Topeka, Kan., earth excavation, 35½ cts.; combination curb and gutter, 51 cts.; brick paving, concrete foundation with cement grout filler, $1.33 (awarded contract). Haskins & Ramsey, Topeka, Kan., for same as above excavation, 35 cts.; curb and gutter, 60 cts.; paving, $1.36. For grading, paving and curbing Mississippi St. with brick outside the railway track on 4-in. concrete foundation with grout filler and combined curb and gutter, 3,500 sq. yds. paving, 3,000 ft. of curb and gutter: W. W. GILMORE, Topeka, Kan., earth excavation, 35½ cts.; combined curb and gutter, 51 cts.; brick paving, concrete foundation, with cement grout filler, $1.33 (awarded contract). Haskins & Ramsey, Topeka, Kan., for same as above excavation, 35 cts.; curb and gutter, 60 cts.; paving, $1.36. For grading, paving with 2-course vitrified brick, sand filler, outside street railway track, using concrete curb on New Jersey St., paving, 9,300 sq. yds., curbing 7,400 ft.: W. W. GILMORE, excavation, 35½ cts.; concrete curb, 31 cts.; 2-course vitrified brick paving with sand filler, $1.29 (awarded contract). Haskins & Ramsey, excavation, 35 cts.; curb, 37 cts.; brick paving, $1.30. Holland Wheeler is City Engr.

FORT LEAVENWORTH, KAN.—We are officially advised that bids were received by Capt. William D. Davis, Q. M., on Nov. 13, for the construction of roads, walks, etc., to Fort Leavenworth. The lowest bidders were Thomas Jones & Sons, Leavenworth, Kan.

MACON, MO.—Bids are asked by E. W. English, City Clerk, until 8 p. m., Dec. 6, for the construction of granitoid sidewalk on the east side of Rutherford St., in the city of Macon, along and abutting on the west end of Lot 8, Block 121, City of Macon. Said sidewalk shall be 4 ft. wide.

LITTLE ROCK, ARK.—Bids will be received by the Commissioners of Street Improvement District 154, until Nov. 26 for paving Louisiana and West Second Sts., about 4,000 sq. yds., with brick, asphalt or creosoted block on concrete foundation.

JONESBORO, ARK.—Bids are asked by the Board of Street Improvement District No. 4, Jonesville, until 2 p. m., Dec. 6, for grading, surfacing and paving, with either concrete, hassam, bitulithic, or creosote wood block, or with vitrified brick block pavement on cement foundation, about 23,000 sq. yds. of street in said district; and for curbing, guttering about 10,000 lin. ft.; and building sidewalks of concrete, approximately 105,000 sq. ft. in said district. H. H. Houghton is Secy., Gregg Bldg., Jonesboro.

HOUSTON, TEX.—Bids are asked by the city until Dec. 13, for paving with brick San Jacinto, Main and Travis Sts. and Washington Ave. The plans and specifications for the paving work have been adopted by the City Council and a resolution was passed authorizing the Mayor to advertise for the bids. San Jacinto St. will be paved from the present terminus of the brick pavement on Leeland Ave. to McGowan Ave.; Travis St. will be paved from Dallas to Leeland Aves.; Main St. will be paved from the end of the present pavement to the city limits and Washington Ave. will be paved from the end of the present pavement near the Glenwood Cemetery to the Southern Pacific R. R. crossing.

SAPULPA, OKLA.—Bids will be received until Nov. 29 for 40,000 sq. yds. of sheet asphalt paving. Cost, $95,000. Ira J. Anderson is City Clerk. E. D. Kirkpatrick is City Engr.

ANADARKO, OKLA.—Bids will be received until Dec. 1 for paving Main St., Anadarko, about 47,000 sq. yds. Plans on file with City Clerk, Anadarko, and at the office of the Southwestern Engineering Co., 435 Lee Bldg., Oklahoma City.

SPOKANE, WASH.—The following were the lowest bids received Nov. 5 by the Board of Public Works for grading and constructing roads on Sinto St.: To C. M. Pay, $18,790; on 13th St., Kleffner & Quarring, $2,776; on Adams St., L. B. Handley, $12,900; on First St., Foster & Hindle, $10,902; on Garland, Mitchell Bros., 1222 Third Ave., $19,763; on Hogan St., Abbot & Joslin, $8,450.

BELLINGHAM, WASH.—The Board of Public Works has awarded the contract for paving Champion St. to K. SAUSET at $6,183.

SANTA MONICA, CAL.—The BARBER ASPHALT PAVING CO. has been awarded a contract by the City of Santa Monica, Cal., to pave the speedway, from Pier to Holliston Aves. and work will begin in a short time. Amount of contract, $9,706.

LOS ANGELES, CAL.—The Los Angeles County Board of Supervisors has awarded a contract to NEWELL, MATHEWS & CO., of Los Angeles, to furnish a traction engine and road outfit, consisting of a 30-HP. traction engine, six self-spreading stone dump wagons, and an oil and water wagon at $6,545.

POMONA, CAL.—The city of Pomona is planning to rebuild 21 miles of streets at a cost of $400,000.

SAN BERNARDINO, CAL.—The JOHNSON-SHEA CO. has been awarded contract for macadam pavement on Mount Vernon Ave. at $8,888 at San Bernardino, Cal. Ernest Frizelle, Redlands, Cal., bid $9,922.

SAN RAFAEL, CAL.—Bids are asked by R. E. Graham, Clerk Bd. of Supervs., until 1 p. m., Dec. 6, for grading and macadamizing the roadway of the Toll Road from San Rafael to San Quentin R. R. northerly to the southerly line of Simms St. and for the construction of a levee along the easterly side of said roadway from said railroad northerly for a distance of 2,400 ft. in Road District No. 10.

UKIAH, CAL.—The contract for building Ukiah and Boonville road has been awarded to U. N. BRIGGS for the sum of $11,490.

GLENDALE, ARIZ.—The Board of Trustees of Road District No. 3, Glendale, is contemplating plans for expending $200,000 for better roads in this district.

PHOENIX, ARIZ.—We are officially advised that the City Council desires to obtain information relative to the cost of various kinds of paving. Address Frank Thomas, City Recdr. Ornar A. Turner is City Engr.

SALT LAKE CITY, UTAH.—We are officially advised that the following bids were received on Nov. 5 for paving Extension No. 61: Strange & Maguire, Salt Lake City, $147,852; P. J. Moran, Salt Lake City, $164,303; Bryant-Ford-McLaughlin Asphalt Paving Co., Waterloo, Iowa, $171,208; Barber Asphalt Paving Co., San Francisco, $173,663. George O. Chaney is City Engr.

MANUFACTURING PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

LOWELL, MASS.—The Merrimack Mfg. Co., of this city, has been granted permits to construct an addition of two stories to its dyehouse at the cost of $25,000. The new structure will be 88 × 120 ft. A building adjoining the dyehouse will also be built, costing about $50,000. This structure, which will be constructed of brick, will be three stories high, the dimensions being 147 x 165 ft.

NEW BEDFORD, MASS.—The contract for construction of the Apponegansett Mill, which is to be erected on the east side of Clark's Point, has been awarded to J. J. PRIDEVILLE, of South Framingham, Mass. Work has already been started on the foundations of the Apponegansett Mill.

WOONSOCKET, R. I.—It is stated that Charles Harding, of Boston, Mass., contemplates erecting a worsted yarn mill, of from 8,000 to 10,000 spindles, on the Cold Spring land, opposite the Scotia Mill and across the Blackstone River. The mill will be on land owned by E. H. Rathbun, Mr. Harding's local representative., about where the Cold Spring ball field is located. The mill will be built large enough for 10,000 spindles, 8,000 of which will be put in at once. Mr. Harding owns mills in Lawrence and New Bedford, Mass.

NEW YORK, N. Y.—Bids are asked by John J. Barry, Comr. of Dept. of Correction, until 11 a. m., Dec. 2, for furnishing all labor and material required to install a new dryroom, extractors, shafting, hangers, etc., alterations and additions to steam piping, etc., remove the old boiler piping, etc., in the laundry building on Blackwells Island, New York, connected with the penitentiary.

WOODBRIDGE, N. J.—The Federal Terra Cotta Co., with offices at 111 Broadway, New York, has been incorporated, with a capital of $1,500,000. It is the purpose of the concern to build and equip a factory by April 1, 1910. Land has been purchased at Woodbridge, N. J., with siding connections to the Pennsylvania R. R., and deep waterway transportation facilities on Woodbridge Creek. The officers of the company are: De Forest Grant, Pres. and Gen Mgr.; Edwin Thorne, First Vice-Pres.; William Manice, Second Vice-Pres.; Frank A. Thayer, Treas.; and Dwight W. Taylor, Sec. The directors are De Forest Grant, William Manice, John E. Berwind, Edward J. Stettinius, Frank A. Thayer, Madison Grant, Dwight W. Taylor, Edwin Thorne, Rodney Thayer and William B. Dinsmore. The main building will be fireproof and constructed of terra-cotta, 250 × 600 ft. There will be several other buildings, including a powerhouse. The owners will build. Cost, $500,000.

POTTSVILLE, PA.—The Eastern Steel Co. is preparing to make improvements and additions to its plant which will cost $500,000. The capacity of the open-hearth department is to be increased, and plans are on hand to add two more furnaces. Veryl Preston is Pres.

ETNA (Allegheny post-office), PA.—A machine shop, to cost over $100,000, will be built by the Spang & Chalfant Co., Etna. The plant will occupy the ground upon which the company houses in Bridge St. are located. Improvements aggregating over $200,000 are being made. As soon as the Borough Council vacates part of Butler St., more improvements will be made.

PHILADELPHIA, PA.—WILLIAM STEELE & SONS CO., 1600 Arch St., has secured the contract for the erection of a 6-story manufacturing building at 313 New St., for England & Bryan, 260 North Third St., to cost $80,000. The plans were prepared by D. Knickerbacker Boyd, Arch., Harrison Bldg.

Plans have been completed by Sauer & Hahn, Archs., 1112 Chestnut St., for a 10-story, fireproof building for light manufacturing, to be erected at the southwest corner of 20th and Arch Sts., for Albert S. Marks. The structure, work on which will

begin in a few months, will measure 60 x 163 ft., and will extend to Cuthbert St. It will be known as the Renalice Building. Light will enter the building from four sides, and there will be 10,000 sq. ft. of floor space on each floor. The exterior will be of granite, terra-cotta and buff brick construction. All improvements and conveniences will be contained in the building. There will be two passenger elevators and two heavy freight elevators. The structure will be fireproof. The first floor will be devoted to store and display salesroom purposes. In all, the building will cost $300,000.

WHEELING, W. VA.—The contract for the proposed addition to the plant of the Wheeling Stamping Works has been let by C. W. Bates, Arch., Wheeling, to KEYSER & McLain, of Bellaire, Ohio, and work on the big structure will be begun in a short time. This addition will be a 3-story reinforced concrete building, extending from Main St. back to the alley on the east side of the present building, and will occupy the space where the Shipley Iron Brew establishment and other small buildings now stand.

ASHEVILLE, N. C.—The Ashville Quilt Mills, of Asheville, have been incorporated, with an authorized capitalization of $150,000 and $35,000 paid in. The company was formed by J. A. Martin, of Hickory; John H. Carter and John G. Merriman, of Asheville. It will manufacture quilts and other similar textile products.

CANTON, N. C.—J. D. Carpenter, of Newton, N. C., is stated to have completed arrangements for organizing a company for the purpose of building a knitting mill at Canton, N. C. The company is to be capitalized at $50,000, of which amount there will be half subscribed by Canton investors and half by Mr. Carpenter. Permanent organizations will be effected soon, so that details of building, machinery, etc., can be determined and contracts awarded. Noted on Oct. 21.

COLUMBIA, S. C.—The Parker Mfg. Co., of Columbia, S. C., has been organized, with a capital stock of $350,000 for the purpose of manufacturing press cloth for oil mills. A. F. Parker has been elected Pres., and Frank T. Parker, Vice-Pres., Gen. Mgr. and Secy. It is stated that this company may build a plant, or it may purchase the plant of the American Press Cloth Co., of Columbia. In the latter event the plant would be enlarged and improved, including the installation of a weaving department.

TURNERVILLE, GA.—Press reports state that J. E. Ellis, of Turnerville, Ga., is interested in plans for the establishment of a knit goods mill in this town.

ATLANTA, GA.—An application has been filed for a charter for the Kennesaw Paper Co., which will establish a plant with headquarters in Atlanta for the manufacture of all kinds of paper, pasteboard and paper products. The company will have $200,000 common stock and $100,000 preferred stock.

ANNISTON, ALA.—We are officially advised that a meeting of the Board of Directors of the Anniston Yarn Mill, James T. Gardner, Gen Mgr., was informed that the stockholders of the company had authorized an enlargement of the plant so as to double its capacity. Orders will be placed at once for the machinery necessary, and work on the addition to the building will be undertaken in March, and when it is completed 5,000 additional spindles will be placed in operation, increasing the value of the mill to over $200,000. The building will have one story and basement; it will be 75 x 180 ft. and of brick construction. Noted Oct. 7 and Oct. 21.

NEW ORLEANS, LA.—We are officially informed that the WATERPROOFING CO., 150 East 36th St., has secured contract to waterproof, with hydrolithic cement, the building for the Fulton Bag & Cotton Mills, at New Orleans, La. The architects for this building are Stone Bros., New Orleans, and the contractor is JEFFERSON CONSTRUCTION CO., North Peters and Louisa Sts., New Orleans.

FREMONT, OHIO.—The newly incorporated Christy Co., of this city, in which the Simmons Hardware Co., Ninth and Spruce Sts., St. Louis, Mo., is largely interested, has secured a tract of land a mile west of Fremont on the car line and will commence the erection of a factory thereon at once. Another large concern will locate on the factory site with the Christy Co. The Lake Shore will build a siding into the factories. The site is near a gas field, where fuel can be secured, and also near a stream of water, where an ample supply will be obtained. The factory will manufacture razors and hardware specialties for the Simmons concern.

MILWAUKEE, WIS.—Kirchhoff & Rose, Archs., Majestic Bldg., Milwaukee, have awarded contracts for the erection of a shoe factory for the A. H. WEINBRENNER CO., 523 Market St., at Juneau Ave. and Knapp St., as follows: Mason, W. MARTIN & SON; carpenter, DAHLMAN CONSTRUCTION CO., Majestic Bldg. Cost, $225,000.

The A. O. Smith Co., Park and Clinton Sts., manufacturers of automobiles, pressed steel frames and parts, has purchased a tract of 15.5 acres adjoining its present holdings of 25 acres in the vicinity of 27th and Hopkins Sts., to provide for further extensions to the $500,000 plant now being erected. The new plant is being built by day labor. The main building has dimensions of 1,025 x 287 ft., one story high, with sawtooth roof; power plant 400 x 60 ft., one story high; office, 148 x 60 ft., two stories high.

BERLIN, WIS.—The Schaefer Co., engineers, foundrymen and machinists, has awarded the general contract for the erection of an addition, 80 x 60 ft., to the foundry, to KRAMP & CEMAN, of Berlin.

BEAVER DAM, WIS.—The Beaver Dam Malleable Iron Co. has purchased a tract of five acres on South St. and will erect a complete malleable iron plant, consisting of two buildings, of brick and steel construction, with dimensions of 150 x 20 and 300 x 87 ft.

EAU CLAIRE, WIS.—We are officially advised that the Eau Claire Trunk Co. has purchased the triangular lot in the Ninth Ward, bounded by Mill and Beach Sts. and First Ave., with the view of erecting a 3-story factory building next spring.

WICHITA, KAN.—F. F. Parson, Bitting Block, Wichita, Kan., Arch., is preparing plans for the construction of cleaning and dye works, to cost $10,000, for the People's Cleaning & Dye Works, at Wichita. The building to be erected on South Lawrence St. J. S. Ciwasky is proprietor.

KANSAS CITY, MO.—The Indiana Silo Mfg. Co., with headquarters in Anderson, Ind., leased a 300 x 140-ft. tract in Glen Park, Southwest Boulevard and the State Line, upon which to erect a factory for the manufacture of silos. The cost of the buildings is expected to be about $100,000.

PORT ARTHUR, TEX.—John W. Gates intends to erect here a paper mill to cost about $500,000. Rice straw will be used as the raw material. He has had experts at work for several months conducting experiments in the manufacture of paper from rice straw and their report is favorable. The straw will be obtained from the rice fields of the Gulf Coast region.

OKLAHOMA CITY, OKLA.—Ferfoot-Miller will erect a 4-story concrete factory building for manufacturing overalls and shirts, and will also erect two additional stories to present structure.

OTHELLO, WASH.—The R. S. King Co., of Seattle, will erect a slate factory here, costing $200,000.

CROCKETT, CAL.—The California & Hawaiian Sugar Co. is preparing for the expenditure of $200,000 in improving the facilities at the refinery at Crockett. Among the plans is the erection of a 6-story brick addition to the west side of the present structure. The plant will be shut down on Dec. 1 for six weeks that other improvements may be made.

LOS ANGELES, CAL.—The pioneer Hosiery Mills Co. will erect a 3-story reinforced-concrete factory building as soon as a suitable site can be obtained. E. J. Wittenberg is Pres., 419 South Los Angeles St., Los Angeles, Cal.

SYDNEY, N. S.—The Dominion Steel Co. has awarded a contract for furnaces and Bessemer hearths to the CANADA FOUNDRY CO., of Toronto, Ont., at $550,000.

NEWFOUNDLAND.—We are officially advised that the Ambursen Hydraulic Construction Co., 176 Federal St., Boston, Mass., has been employed to design and supervise the construction of a dam 50 ft. high and 650 ft. long across the Exploits River in northern Newfoundland, for the pulp mill now being built for Albert E. Reed & Co., of England. George F. Hardy, 309 Broadway, New York, is Engr. for the company.

MEXICO.—The Fortuna and North Ligre Mining Co., of Sonora, Mexico, will erect, soon, a 100-ton concentrating plant. Estimated cost, $100,000. J. W. Shepard, of St. Paul, Minn, is Mgr.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

*SUBWAY.—Auburn, N. Y.—See item under Streets and Roads.

LEVEE.—San Rafael, Cal.—See item under Streets and Roads.

DRAIN.—Boone, Iowa.—Bids will be received until Dec. 2 by the Board County Supervisors for constructing tile drain No. 36. E. F. Jones, County Auditor.

PARK.—New York, N. Y.—Bids are asked until 3 p. m., Dec. 2, by the Department of Parks, for constructing the southerly portion of Colonial Park, Boro. of Manhattan.

SEAWALL REPAIRS.—New York, N. Y.—Bids are asked until 3 p. m., Dec. 2, by the Department of Parks for repairing seawall along the waterfront of Battery Park, Boro. Manhattan.

*LUMBER.—Nashville, Tenn.—Bids are asked until 11 a. m., Dec. 27, by Maj. William M. Harts, Corps Engrs., U. S. A., for furnishing and delivering 883,761 ft. b. m., of long-leaf yellow pine lumber.

DRAIN.—Rockwell City, Iowa.—The ELECTRICAL CEMENT & TILE CO., of Lake City, Iowa, has been awarded contract for eleven miles of tile drain; tile will range from 6 ins to 2 ft. in diameter.

AIR COMPRESSOR.—New York, N. Y.—Bids are asked until 2 p. m., Dec. 9, by T. W. Stevenson, Bridge Comr., for furnishing and delivering one duplex steam-driven air compressor to the Brooklyn Bridge.

*DITCH.—Defiance, Ohio.—Bids are asked until 1 p. m., Dec. 8, by the Commissioners for Gordon Creek Joint County Ditch Improvement No. 398, for 335,569 cu. yds. of excavation. Estimated cost, $50,395.

DITCH.—Olivia, Minn.—Bids will be received until Nov. 27 by J. L. Johnson, Audr., Renville County, Olivia, at the office of A. V. Rieke, attorney, at Fairfax, Minn., for deepening, widening and repairing Ditch No. 3.

EMBANKMENT.—Hammonton, Cal.—Bids will be received until Dec. 1 by the California Debris Commissioner, San Francisco, for placing about 40,000 cu. yds. embankment at the settling basin on the Yuba River near Hammonton.

STEAMER.—New York, N. Y.—Bids are asked by John T. Barry, Comr. of Correction, until 11 a. m., Dec. 2, for furnishing all the labor and materials required for construction and completion of a 72-ft. single-screw steamer.

LEVEE WORK.—Memphis, Tenn.—Bids are asked until Nov. 30 by Mississippi River Commission, First and Second Districts, for about 45,000 cu. yds. of levee work in Rellfoot levee district. Maj. M. L. Walker, Corps Engrs., U. S. A.

DRAIN.—Clarion, Iowa.—Bids will be received until Dec. 6 by the Board County Commissioners for constructing Drain No. 40, Blaine Township, requiring 12,800 ft. 24, 22, 18 and 16-in. tile, 1,300 ft. open ditch; also an open overflow ditch.

DREDGING.—Charleston, S. C.—No bids were received on Nov. 20 by the Bureau of Yards and Docks, Navy Department, Washington, for dredging at the Navy Yard, Charleston, S. C., in response to advertisement issued Oct. 13, 1909.

DREDGING.—Urbana, Ohio.—Bids were received by C. D. Russell, County Audr., on Nov. 20 for constructing 269,489 cu. yds. of dredge work. The complete contract has been let to DANIEL E. WEAGEL, at $19,263. James Swisher, Urbana, is Engr.

CEMENT.—New York, N. Y.—Bids were received as follows by the Department of Water Supply, Gas and Electricity on Nov. 17 for furnishing and delivering cement: Stephen V. Duffy, 34 Stratford Road, Brooklyn, $1.73 per bbl.; Edward E. Huhla Co., $1.74.

PUMPING EQUIPMENT, ETC.—Pittsburg, Pa.—Bids will be received at the office of the City Controller until Nov. 29 for furnishing f.o.b. cars Brilliant Station, pumping equipment and material for drainage system. Jos. G. Armstrong, Dir. Dept. of Public Works

DITCH.—Olivia, Minn.—Bids were received by J. L. Johnson, County Audr., on Nov. 18 for digging and constructing judicial ditch No. 4. Contract has been let to JERRY SHERWOOD, of Litchfield, Minn., at $11,238. John Norgaard is Engr., Granite Falls, Minn.

COAL DOCK.—Billings, Mont.—The PIPER CONSTRUCTION CO., of Billings, has contract to erect a 500-ton coal dock for the Northern Pacific Ry. Co. in Billings. Estimated cost, about $15,000. F. J. Taylor, Livingston, Mont., Div. Engr., is in charge of the work.

IMPROVEMENTS TO PIER—Boston, Mass.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Dec. 18, for improvements to Pier No 1, Navy Yard, Boston. Specifications are on file at the office of Engineering News, New York.

PIPE LINE, ETC.—St. Louis, Mo.—Bids will be received until noon, Dec. 7, by Lieut. C. H. Knight, Corps Engrs., U. S. A., Mississippi River Comn., Liggett Bldg., St. Louis, Mo., for furnishing 24-in. discharge pipe line and special fittings for suction pipes for suction dredge.

DAM.—Kippewa, Que.—Bids were received on Oct. 7 by Napoleon Tessier, Secy., Dept. Public Works, Ottawa, Ont., for constructing a dam on the Kippewa River, County of Pontiac. J. L. Michaud, Resident Engr., Merchants' Bank Bldg., Montreal. The contract has been let to MORROW & BEATTY, of Peterboro, Ont.

CABLE.—Cincinnati, Ohio.—Bids were received on Oct. 29 by Elmer G. Prior, Secy. Dept. Public Safety, for furnishing and delivering underground cable for the telephone and signal circuits of the Fire Department. The contract has been let to the SAFETY INSULATED WIRE & CABLE CO., 137 West Jackson Boulevard, Chicago, Ill., at $3,995.

EARTHWORK.—Erie, Kan.—Bids were received on Nov. 5, at the office of O. M. Johnson, County Clk., for constructing 70 sections of earthwork on the Allen extension of Rosenthal levee in Tioga Township; also a 25-ft. steel I-beam bridge in this levee. The contract for 7,000 ft. of levee, average height, 3½ ft., 1½ to 1 slope, has been awarded to A. J. Briley, of Chanute, Kan., at 11 cts. per cu. yd.

LEVEE ENLARGEMENT.—Memphis, Tenn.—Bids were received on Oct. 28 by the Mississippi River Commission, First and Second Districts, Maj. M. L. Walker, Corps Engrs., U. S. A., Memphis, for about 35,000 cu. yds. of levee enlargement. The following bids were received from (a) Roach & Stansell, Memphis, and (b) P. H. Rogers, Memphis: 35,000 cu. yds. levee embankment, (a) 17.90 cts. per cu. yd, (b) 18.40 cts.; two acres light grubbing, (a) $50 per acre, (b) $150.

IRON AND STEEL.—New York.—The following bids were received by the Department of Water Supply, Gas and Electricity on Nov. 10 for furnishing and delivering (a) bar iron, (b) machinery steel, (c) tool steel, (d) lathe tool steel: Thomas W. Kiley, 57 Grand St., Brooklyn, (a) 3.3 cts., (b) 2.75 cts., (c) 16 cts., (d) 60 cts.; G. & W. Mfg. Co., 26 Cortlandt St, New York, (a) 4.75 cts., (b) 3.8 cts., (c) 8.5 cts., (d) 86 cts.; William R. Thompson, 704 Lafayette Ave., Brooklyn, (a) 4 cts., (b) 4 cts., (c) 23 cts., (d) 90 cts.

ANCHORS.—Fort Totten, N. Y.—Bids for c.-i. anchors were received at the Torpedo Depot, Fort Totten, Nov. 12, as follows: American Welding Co., informal; E. W. Bliss Co., informal; Continental Iron Works, informal; Standard Foundry Co., 45 Broadway, N. Y., $29.78; Stuart R. Carr & Co., $26.68; BROOMELL, SCHMIDT & STEACY CO., York, Pa., $23.80 (awarded contract); New Jersey Foundry & Machine Co., 90 West St., New York, $32.80; G. & W. Manufacturing Co., 26 Cortlandt St., New York. All bids are f. o. b., New York.

DRIP PANS.—New York, N. Y.—Bids were received as follows by the Department of Bridges on Nov. 18, for construction of drip pans under the Manhattan approach of the Williamsburg Bridge: Charles Mease & Co., 299 Broadway, New York, $23,230; Cooper-Evans Co., 220 Broadway, New York, $24,477; Snare & Triest, 143 Liberty St., New York, $29,700; Northeastern Construction Co., $26,337; Lafferty & Weir, 723 Lexington Ave., New York, $24,780; John Kenney Co., $24,800; J. H. Gray & Co., Broadway and 23d St., New York, $37,600; Edwin Burhorn, 71 Wall St., New York, $24,980.

EARTH FILL.—New York, N. Y.—Bids were received as follows on Nov. 11 by the Department of Parks, for furnishing and delivering earth fill for the Colonial Garden in Van Cortlandt Park, in the Borough of the Bronx: CHARLES L. DORAN, 1015 Walton Ave., The Bronx, $11,500 (awarded contract); Cooper & Evans, 220 Broadway, New York, $13,501; John B. Malatesta, 3169 Jerome Ave., New York, $18,170; McDonald & Barry, Webster and Tremont Aves., New York, $22,770; Haggerty Contracting Co., 2459 Division Ave., New York, $14,260; Alamo Const. Co., 215 West 125th St., New York, $13,110; Louis Wechler, $15,640; Matio Capiabanca, $15,870.

LEVEE.—New Orleans, La.—Bids were received as follows on Oct. 30, by Capt. H. Burgess, Corps Engrs., U. S. A., for constructing about 130,000 cu. yds. of earth work in the Pontchartrain levee district (a) per cu. yd., (b) total: O. A. GIBSON, Natchez, Miss., (a) 16.99 cts., (b) $22,087 (awarded contract); I. R. Bobbitt, Bougere, La., (a) 19.70 cts., (b) $25,610; R. T. Clark, Natchez, (a) 18 cts., (b) $23,400; A. E. Parker, Vicksburg, Miss., (a) 22 cts., (b) $28,600; Hearin & Ryan, Baton Rouge, La., (a) 19.94 cts., (b) $25,922; W. C. Mullen, Bougere, La., (a) 18.97 cts., (b) $24,661; N. Frey, New Orleans, La., (a) 16.20 cts., (b) $21,060 (informal).

FENCE, ETC.—Boston, Mass.—Bids were received as follows at the office of the Charles River Basin Commission on Nov. 22 for furnishing and erecting a c.-i. fence and two flights of iron stairs on the Charles River Dam in Cambridge and Boston: VULCAN RAIL & CONSTRUCTION CO., 175-177 North Ninth St., Brooklyn, N. Y., $8,264 (awarded contract); Gibby Foundry Co., Condor St., East Boston, $11,295; Walworth Construction & Supply Co., 100 Pearl St., Boston, $12,780; John Pirkl Iron Works, 240-246 North Tenth St., Brooklyn, $13,675; Hecla Iron Works, 118 North Eleventh St., Brooklyn, $15,500; A. B. Robbins Iron Co., Quincy, Mass., $19,500; W. A. Snow Iron Works, Inc., 19 Portland St., Boston, $23,700.

DRAINAGE CANAL.—Timberville, Miss.—Bids were received on Nov. 15, by Irwin F. Smith, Secy., Yallobasha Swampland District No. 1, for construction of a 12-mile drainage canal. There will be about 476,000 cu. yds. of excavation. The contractor is to furnish dredge, boat, with all implements and labor, etc., necessary for the excavation of the canal and the clearing of the right-of-way. Time allowed for the completion of the canal is limited. H. P. Farrar is Engr., Jackson, Miss. Following is a list of bids: Wimanac Bridge Co., Wimanac, Ind., 8.89 cts. per cu. yd.; C. W. Beeker & Son, La Fayette, Ind., 8.04½ cts.; Rogers & Black, Malden, Mo., 8.89 cts.; Otto Kochtitzy, Cape Girardeau, Mo., 7.80 cts.; GOLSON & McKNIGHT, Hollis, Miss., 7.55 cts. (awarded contract); W. H. D'Arcy, Dayton, Ohio, 8.42 cts.; Spankle Construction Co., Okolona, Miss., 9.20 cts.; G. A. McWilliams, Walnut, Ill., 8.95 cts.; L. E. Brevord & Co., Houston, Miss., 8.49 cts.; Conce Construction Co., Chicago, 8.75 cts. There will be one main ditch, with a 25-ft. base; slope ½ to 1; average cut, 7½ ft., 12.23 miles long; including clearing right-of-way and removing logs for 50 ft. or 25 ft. each way from center of ditch.

EXAMINATIONS.

SUPERINTENDENT OF STREETS.—Chicago, Ill.—A civil service examination for the position of Superintendent of Streets will be held on Dec. 7 by the Chicago Civil Service Commission, City Hall, Chicago. It has been decided to throw this open to non-residents, and applications must be filed with the commission not later than Dec. 6. The salary is $5,000 a year.

TRADE PUBLICATIONS.

STEEL BELT LACING.—Bristol Co., Waterbury, Conn. Bulletin No. 113. Paper; 8 x 10½ ins.; pp. 7; illustrated.

Bristol's patent steel belt lacing is briefly described in this bulletin, which also gives prices on the various sizes listed.

MARINE GAS ENGINES.—Valley Boat & Engine Co., Baldwinsville, N. Y. Paper; 9 x 6 ins.; pp. 16; illustrated.

Small marine gas engines and finished parts for making such engines are described, with price lists, in this catalog.

RECORDING THERMOMETERS.—Bristol Co., Waterbury, Conn. Bulletin No. 112. Paper; 8 x 10½ ins.; pp. 2; illustrated.

Recording thermometers for low and atmospheric ranges of temperature are listed in this bulletin. Specimen sections of the various charts furnished with these instruments are shown.

COLLAPSIBLE STEEL CENTERING.—Blaw Collapsible Steel Centering Co., Pittsburg, Pa. Paper; 6 x 9 ins.; pp. 15; illustrated.

This bulletin is devoted chiefly to centering used in the construction of the Louisville sewerage system. The forms employed range from 2 to 15½ ft. in diameter.

ASH CONVEYOR.—Darley Engineering Co., New York, N. Y. Bulletin No. 4. Paper; 8 x 10 ins.; pp. 10; illustrated.

The Darley suction ash-conveyor system is outlined in this bulletin. The simplicity of this system has aroused much interest, and this bulletin is largely a presentation of the same matter that has been given before. The several editions seem to have been exhausted by the demands of station operators. A partial list of the suction conveyor plants in operation is appended.

REINFORCED-CONCRETE PIPE.—Lock Joint Pipe Co., 165 Broadway, N. Y. 9 × 6 ins.; pp. 36; illustrated.

The Meriwether pipe, described in this catalog, is a concrete pipe with a special joint, which is heavily reinforced so as to form a lock joint. It is recommended for use in conduits, drains and sewers.

VELOCITY GAGES.—"Hydro" Mfg. Co., Pittsburg, Pa. Paper; 7½ × 10 ins.; pp. 6.

Apparatus for measuring and recording the passage of large volumes of gas and air, such as for blast furnace processes, is very briefly described in this circular, which, presumably, is to lead the reader to a fuller investigation.

SMALL FORGING FURNACES.—Rockwell Furnace Co., New York, N. Y. Paper; 9 × 12 ins.; pp. 40; illustrated.

Small furnaces for forging, brazing, rivet heating, welding, annealing and blacksmithing, and large furnaces for plate heating, are described herein. These furnaces are mostly for oil and gas fuels, and for work where very high temperatures are needed.

TESTING ELECTRICAL INSTRUMENTS.—U. S. Bureau of Standards, Washington, D. C. Circular 20, Paper; 8 × 10 ins.; pp. 31.

This bulletin classifies the various electrical measuring instruments, reviews the errors found and the precautions for accurate tests. Instructions for securing tests by the Bureau of Standards and a schedule of fees are appended.

PUMPING MACHINERY.—Byron Jackson Iron Works, West Berkeley, Cal. Bulletins. Paper; 6 × 9½ ins.; pp. 40; illustrated.

This collection of bulletins describes a seven-stage vertical motor-driven mine sinking pump and a similar line of turbine pumps, both horizontal and vertical. These pumps are mostly motor-driven, and they are designed for a variety of uses.

CENTRIFUGAL FIRE PUMPS.—The Allis-Chalmers Co., Milwaukee, Wis. Paper; 8 × 10½ ins.; pp. 20; illustrated.

The pumps for the high-pressure fire-protection service at New York are the subject of this pamphlet, which contains Prof. Carpenter's report of the endurance test. There are also a number of reprints of daily press accounts of the use of this system in extinguishing fires.

FACTORY AND WAREHOUSE BUILDINGS.—John W. Ferguson Co., Paterson, N. J. 11½ × 9 ins.; pp. 108; boards; illustrated.

In a very attractively printed and bound book this company presents views of a great number of buildings, mostly manufacturing plants, which they have built. A system of folded pages so that no two half-tones are printed back to back ensures good press work for the illustrations.

OVERHEAD CARRYING DEVICES.—New Jersey Foundry & Machine Co., 90 West St., New York City; Catalog 77. Paper; 6 × 9 ins.; pp. 95; illustrated.

Overhead tracking, trolleys, hoists, cranes, buckets, industrial railways, cars, etc., are shown in this catalog. Dimensioned detail drawings of the Coburn overhead track are shown and there are a number of photographs of actual installations of this company's equipment.

VITRIFIED PIPE SEWERS.—Blackmer & Post Pipe Co., St. Louis, Mo. 6 × 9 ins.; pp. 48; illustrated.

The first part of this pamphlet is devoted to a description of the various vitrified pipe for use in drains, conduits and sewers. In dimension this can be supplied in diameter up to 30 ins. The second part is a collection of evidence against the use of concrete in sewer construction.

A NEW CONDENSER.—International Condenser Co., 1224 First National Bank Building, Chicago. Paper; 8½ × 11 ins.; pp. 4; illustrated.

In this condenser one tube sheet is exposed, and is subjected to a fine spray of cold water from a rose head. The vapor is drawn through the tubes by the draft induced by a fan and the excess water is caught by a drain and returned to be used again. Very high efficiency is claimed.

CORKBOARD INSULATION. — Armstrong Cork Co., Pittsburg, Pa. Heavy paper; 6 × 9 ins.; pp. 118; illustrated.

After an introductory portion pointing out the need of a good insulating material for cold-storage rooms, this publication presents descriptions and tabulated results of heat transmission tests on "nonpareil" corkboard and on other materials used for cold-storage insulation. Fire tests on corkboard insulation are also described, and the many points of superiority of this insulation are set forth in detail. Cork pipe covering for brine pipes and granulated cork are made by this company.

PYROMETERS.—The Bristol Co., Waterbury, Conn. Bulletins 108 and 115. Paper; 8 × 10½ ins.; pp. 7 and 7; illustrated.

Two new adaptations of Prof. Bristol's well known pyrometers (to annealing and hardening furnaces) are described in these two bulletins. The use of the apparatus is given in general, with a statement that further details should be arranged with the manufacturer.

ROAD ROLLERS.—The Huber Mfg. Co., Marion, Ohio. Paper; 9 × 6 ins.; pp. 14; illustrated.

The particular novelty shown in this booklet is a steam road roller which may be converted into a common traction engine by removing the front roller and attaching wheels in place of it. The use of the machine as a roller and as a traction engine under a variety of conditions is shown by a collection of photographs.

INDUSTRIAL CARS, DUMP BUCKETS, REVOLVING SCREENS, ETC.—H. B. Sackett Screen & Chute Co., 4212 S. State St., Chicago, Ill. Catalog No. 31. Paper; 10 × 7 ins.; pp. 63; illustrated.

Pictures and brief descriptions are given in this catalog of industrial cars, mine and ore cars, contractors cars and buckets, portable railways, elevators, revolving screens, skips and other implements used by contractors and in mining and other industries.

INCANDESCENT LAMPS.—Engineering Department, National Electric Lamp Association, 4411 Hough Ave., Cleveland, Ohio., Bulletin 5B. Paper; 6 × 9 ins.; pp. 11; illustrated.

Electric incandescent lamps suitable for use on street railway cars are described in this bulletin. These lamps are the tantalum and improved carbon-filament types. There are many data in this bulletin leading to the proper choice of street railway lamps.

EXHAUST STEAM HEATING.—Harrison Safety Boiler Works, Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 48; illustrated.

The prominent systems of exhaust steam heating are described in an artistic monograph. The drawings, reproduced in colors, show several varieties of gravity return and vacuum systems. All of these systems are described to show the possibility of application of a new type of receiver and feed-water heater which has been developed by this company.

GAS PRODUCERS.—The Westinghouse Machine Company, East Pittsburg, Pa. Circular W. M. 503. Paper; 7 × 10 ins.; pp. 32; illustrated.

The problem of making producer gas from bituminous coals is outlined in this paper, and the particular solution worked out by the Westinghouse company is described in general. The data of several tests are presented that the reader may judge of the value of the apparatus and compare the product with that of anthracite producers.

GRINDING AND POLISHING MACHINERY.—Diamond Machine Co., Providence, R. I. Catalog D. Paper; 6 × 9 ins.; pp. 216; illustrated.

A great variety of grinding and polishing machines is shown in this catalog. There are all sorts and sizes of grinders from gun barrel and skate-sharpening machines and tool-post grinders to large, automatic, roll grinding machines. Prices are listed. This is the first of this company's publications to show their heavy face grinders, lathe grinding attachments, and diamond disk and emery ring grinders.

BLAST HOLE DRILLS.—Keystone Driller Co., Beaver Falls, Pa. Catalog No. 4. Paper; 8½ × 11½ ins.; pp. 36; illustrated.

This company has issued in this publication a sort of monograph on drilling blast holes with regular well drillers. When a heavy body of material is to be thrown down, the plan is to drill large holes at certain distances apart over the whole area to be blasted. The sizes of holes, proportion of the blasts and a description of the drillers are all given here. In addition, there is much information on the use of similar well drillers in river and harbor exploration. The equipment for drilling various sized holes is given, with prices.

FEED-WATER HEATERS.—Harrison Safety Boiler Works, 3166 North 17th St., Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 104; illustrated.

Fully two-thirds of the book is occupied by discussions and illustrations of the different ways of employing exhaust steam, as for heating, drying, evaporating, heating water for boiler feeding and for use in dye works, tanneries, bleacheries and paper mills, etc. In a chapter entitled "The Possibilities of a Pound of Steam," it is pointed out that at the best only 10 or 12% of the total heat energy in steam can be converted into mechanical work, and that the remainder still present in the exhaust of an engine or turbine is as good for most of the purposes for which steam is employed as is the same weight of live steam. In a chapter on "Condensing Plants," it is shown that it does not pay to install electric—or power-driven auxiliaries as long as the steam from steam-driven auxiliaries can be used for heating the feed water. The section on "Corrosion" gives the latest results, showing that air in solution in the water is a necessary condition to corrosion and pointing out that a large part of this can be driven off from the water by spraying the latter through a steam bath, as in the Cochrane Open Heater.

ELECTRIC MOTORS.—General Electric Co., Schenectady, N. Y. Bulletins 4687, 4691, 4692, 4693. Paper; 8 × 10½ ins.; illustrated.

Bulletin 4687 describes starting rheostats for direct current motors. These rheostats are not intended for regulating motor speed.

Bulletin 4691 describes small alternating-current motors for driving the small machines found in machine shops. There is included a diagram giving the dimensions of the motors of all sizes, and the capacity and speeds. These motors are single-phase and polyphase types for use in vertical and horizontal positions.

Bulletins 4692 and 4693 describe the latest construction of this company in 500-volt, 40-HP., and 600-volt, 65-HP. railway motors, respectively. There are tables of schedule speeds, dimensions and various performance curves included with the bulletins.

MANUFACTURING MACHINERY. — Waterbury Farrel Foundry & Machine Co., Waterbury, Conn. Cloth; 6 × 9 ins.; pp. 205; illustrated.

This is a general catalog covering more briefly the material contained in the 16 special catalogs issued by this company. The illustrations are accompanied by more connected and readable descriptive matter than is often found in catalogs covering such a wide variety of products, and there is much more text than is usual in proportion to the pictures. The text deals with the steps in the processes of manufacture for which the various machines are intended rather than with the details of construction of the machines themselves, so that each chapter constitutes a brief but comprehensive treatise on the particular process with which it deals.

The machinery shown includes rivet, bolt and nut machinery; hinge making machines; cartridge machinery; drop presses and hammers; hand and power presses for various purposes; hydraulic machinery; special lathes for knurling, forming, screw-cap threading, etc.; rolling mills; shears; finishing machinery for sheet metal; wire drawing machinery; annealing and hardening furnaces.

ELECTRIC RAILWAY APPARATUS.—General Electric Co., Schenectady, N. Y. Bulletins 4694, 4699, 4701, 4676, 4698. Paper; 8 × 10½ ins.; illustrated.

To provide for a temporary supply of power at weak ends of lines, this company has designed and constructed a type of portable substation consisting of specially arranged cars containing complete equipments for boosting the railway current at the desired points. These cars are designed to be hauled to any section of the line requiring temporary additions of power. Connections to high tension lines and to trolleys or feeders are all that are necessary to put the portable substation into immediate service. These substations are described in Bulletin 4694.

Automatically operated, motor-driven, air compressors are described in Bulletin 4699. These compressors are intended for use on heavy electric cars, equipped with air brakes, but they may be mounted for use wherever small air compressors are needed and electric current is available.

Bulletin 4701 describes a system of emergency straight air brake developed by this company for use on short trains during rush hours. When cars are operating singly, the brakes are applied as with the straight air-brake system, but for trains by the addition of a quick-service valve, a motorman can apply and release the brakes in a minimum of time so that fast schedules can be maintained. The emergency valve provides for the instantaneous application of brakes when necessary. In case a train parts or any damage occurs to the piping, the brakes are automatically applied. The brake equipments for motor and trail cars are shown diagrammatically in this bulletin.

ELEVATING, CONVEYING AND POWER TRANSMITTING MACHINERY.—H. W. Caldwell & Son Co., Western Ave. and 17th St., Chicago, Ill. Catalog No. 34. Cloth; 6 × 9 ins.; pp. 847; illustrated.

The Caldwell helicoid conveyor with continuous spiral flights rolled in one piece is described in detail together with troughs, gears, hangers and other accessories. The next section of the catalog deals with link-belt elevators in great variety. Several types of elevator buckets, boots, distributing spouts, bins and bin gates are shown. Next come power grain shovels, friction hoists, car pullers and several kinds of pinch bars for moving freight cars by hand.

The section devoted to belt conveyors is headed by a general explanation of the construction and operation of this type of conveying machinery, including an illustrated description of a common form of tripping device. In the subsequent pages, a large assortment of appliances for belt conveyors are shown, followed by traveling pan conveyors, apron, platform and steel cable conveyors.

The power transmitting machinery shown includes machine-molded cast-iron pulleys (which are listed in sizes up to 120-in. diameter with 40-in. face), friction-clutch pulleys, paper and cast-iron friction gears, machine-molded cast gears (bevel, spur and helical), and spur and bevel cut gears.

Manila rope transmission is explained by text and diagram, and iron sheaves and other appliances for rope transmission systems are shown. The remainder of the catalog is given over to miscellaneous supplies and appliances including ice-handling machinery and ice crushers.

About 30 pages at the end of the book contain "engineering notes" and tables of use to those interested in elevators, gears, link belting, rope transmission, etc.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 190.

SEWER CONSTRUCTION.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
(Incorporated.)

Sealed proposals for the construction of the 21st Street Sewer, Contract No. 58, will be received at the office of the Commissioners of Sewerage, 605 Equitable Building, Louisville, Ky., until 12 o'clock noon, December 17th, 1909.

The work consists mainly of the construction of 2,180 ft. of 60" reinforced concrete sewer, and 1,566 ft. of 48" and 39" unreinforced concrete sewer, including 3,746 feet of earth excavation, from 7 to 30 ft. deep, about 970 cu. yds. of reinforced concrete, 520 cu. yds. of unreinforced concrete and 60,000 lbs. of steel reinforcement.

Plans and specifications may be seen at the office of the Commissioners, and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for 21st Street Sewer," and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond" as described in the form of proposal.

P. L. ATHERTON,
Chairman.

CHAS. P. WEAVER,
Secy. and Treas.

J. B. F. BREED,
Chief Engineer.

GARBAGE CREMATORY.

The City of Lynchburg, Va., is contemplating the construction of a crematory for the destruction of its garbage. The city authorities will be glad to correspond with companies making a specialty of constructing plants of this character. Address communications to H. L. SHANER, City Engineer.

Situations Open

ESTIMATOR on structural steel work, with experience in New York and vicinity; capable of taking charge. Address, giving full particulars, confidential, "B. B. 22," Engineering News, New York. 22-1t

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TECHNIC OF MECHANICAL DRAFTING
Shows *how* to do it right Price, $1.00

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12-15 Bridge
12-17 Bridge
12-20 Bridge
1- 4*Bridge

12- 4 Storag
12- 6 Post-o
12- 6*Quart
12- 6*Quart
12- 6 Work
12- 6 Schoo
12- 7 Schoo
12- 8 Build
12- 9 Build
12- 9 Museu
12- 9 Post-o
12-10*Quart
12-13 Schoo
12-15 Asylu
12-15*Post-
12-16 Dwell
12-20 Heati
12-20*Wirin
12-20 Chape
12-20 Court
12-21 Platf
12-22 Cotta
12-22 Build
12-22 Alter
12-24 Tile
12-24 Build
12-28*Post-
12-29*Heati
12-29 Plum
12-29 Post-
12-31 Build
1- 6 Post-
1-10*Post-
1-12*Post-

12- 3 Main
12- 6*Gate
12- 6 Wate
12- 7*Pipe